

# TOWN OF ARLINGTON

PLAN AND PROFILE OF  
MASSACHUSETTS AVENUE & APPLETON STREET  
SAFETY & ACCESSIBILITY CORRIDOR

IN THE CITY/TOWN OF  
ARLINGTON  
MIDDLESEX COUNTY

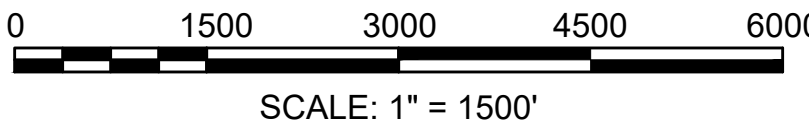
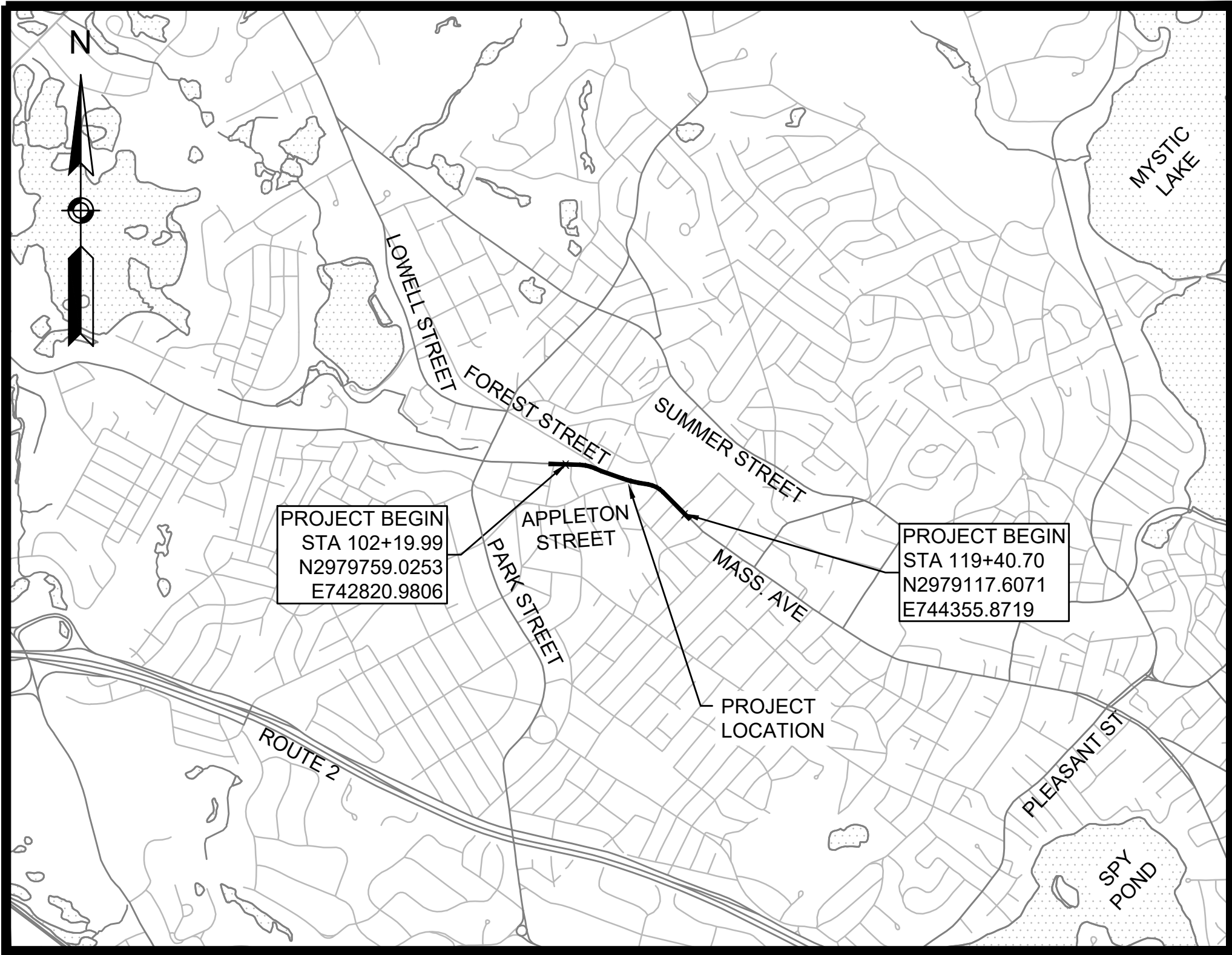
## PRELIMINARY DESIGN SUBMISSION

ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	1	48
START/EC FILE NO.		179411056	

TITLE & INDEX


INDEX	
SHEET NO.	DESCRIPTION
1	TITLE & INDEX
2	LEGEND & ABBREVIATIONS
3	GENERAL NOTES
4	KEY PLAN
5 - 8	TYPICAL SECTIONS
9 - 13	CONSTRUCTION PLANS
14 - 17	PROFILES
18 - 22	DRAINAGE & UTILITY PLANS
23	DRAINAGE & UTILITY DETAILS
24 - 28	TRAFFIC SIGN & PAVEMENT MARKING PLANS
29	TRAFFIC SIGN SUMMARY
30 - 33	TRAFFIC SIGNAL PLANS
34 - 40	LANDSCAPE PLANS
41 - 42	LANDSCAPE DETAILS
43	CONSTRUCTION DETAILS
44 - 45	PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS
46 - 48	CROSS SECTIONS



LENGTH OF PROJECT = 1,720.71 FEET = 0.33 MILES

DRAFT  
NOT FOR CONSTRUCTION

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 MASSDOT CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

12-22-2023	PRELIMINARY DESIGN SUBMISSION	0
DATE	DESCRIPTION	REV #
 45 NETWORK DRIVE   BURLINGTON, MA 01803		

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		HANDHOLE ELECTRIC
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		BUSH
		DECIDUOUS TREE
		EVERGREEN TREE
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		COMPOST FILTER TUBES
		BRUSH/TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		EDGE OF PAVEMENT
		LIMIT OF MICROMILLING AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
		RAILROAD SIGNAL
		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
		MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE THERMOPLASTIC
		LEGEND "ONLY" - WHITE THERMOPLASTIC
		STOP LINE - 12" WHITE THERMOPLASTIC
		CROSSWALK - WHITE THERMOPLASTIC
		SOLID WHITE LINE - 6" THERMOPLASTIC
		SOLID WHITE LINE - 12" THERMOPLASTIC
		SOLID YELLOW LINE - 6" THERMOPLASTIC
		BROKEN WHITE LINE - 6" THERMOPLASTIC
		BROKEN YELLOW LINE - 6" THERMOPLASTIC
		DOTTED WHITE LINE - 6" THERMOPLASTIC
		DOTTED YELLOW LINE - 6" THERMOPLASTIC
		DOTTED WHITE LINE EXTENSION - 6" THERMOPLASTIC
		DOTTED YELLOW LINE EXTENSION - 6" THERMOPLASTIC
		DOUBLE WHITE LINE - 6" THERMOPLASTIC
		DOUBLE YELLOW LINE - 6" THERMOPLASTIC

ABBREVIATIONS

GENERAL	
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CBDB	CATCH BASIN WITH DOUBLE GRATE
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCR	PEDESTRIAN CURB RAMP
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY

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LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

GENERAL	
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

TRAFFIC SIGNAL ABBREVIATIONS

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

GENERAL NOTES:

- EXISTING GROUND SURFACES SHOWN ON PLANS, PROFILES AND CROSS SECTIONS ARE BASED UPON DATA OBTAINED BY FIELD SURVEYS.
- THE LOCATIONS OF EXISTING SUBSURFACE STRUCTURES, SUCH AS SEWERS, WATER MAINS, DRAINS AND OTHER UTILITIES ARE APPROXIMATE ONLY AND THE ENGINEER DOES NOT GUARANTEE THEIR NUMBER OR LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BEFORE EXCAVATING.
- ALL GAS GATES, ELECTRIC MANHOLES, AND TELEPHONE MANHOLES WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED BY THE OWNING AGENCY. ALL GAS, ELECTRIC, TELEPHONE AND CATV WORK SHALL BE DONE BY THE OWNING AGENCY. THE CONTRACTOR SHALL NOTIFY THE OWNING AGENCIES TO ADJUST AND/OR RELOCATE THESE STRUCTURES TO AVOID IMPACTING THE CONTRACTOR'S SCHEDULE OF OPERATIONS.
- ANY DRAINAGE / SEWER / WATER CASTINGS BROKEN THROUGH NO FAULT OF THE CONTRACTOR SHALL BE SUPPLIED BY THE RESPECTIVE MUNICIPALITY FOR ADJUSTMENT UNDER THE CONTRACT ITEMS.
- THE CONTRACTOR SHALL COORDINATE WORK WITH ANY UTILITY COMPANIES DOING WORK IN THE SAME AREA. THE CONTRACTOR SHALL ALLOW THE UTILITY COMPANIES AND THEIR REPRESENTATIVES TO ADJUST AND/OR INSTALL THEIR SYSTEMS WITHIN TOWN / STATE OWNED STREETS AND EASEMENTS.
- CURB SHALL BE FURNISHED AND SET AT LOCATIONS SHOWN ON THE PLANS AND/OR AS REQUIRED BY THE ENGINEER.
- CONSTRUCT DRIVEWAYS AND WALKS AS SHOWN ON THE PLANS AND/OR AS REQUIRED BY THE ENGINEER.
- EXISTING GRANITE CURB AND EDGING SUITABLE FOR REUSE WITHIN THE PROJECT SITE SHALL BE REMOVED AND RESET IN ACCORDANCE WITH THE PLANS AND/OR AS REQUIRED BY THE ENGINEER.
- SAW CUT EXISTING BITUMINOUS CONCRETE ROADWAYS, CEMENT CONCRETE SIDEWALKS AND BITUMINOUS CONCRETE DRIVEWAYS AS SHOWN ON THE PLANS AND AT THE PROPOSED MATCH LINE.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- ALL ACCESSIBLE ROUTES, WALKWAYS, CURB CUTS, RAMPS, SIDEWALKS, DRIVEWAY OPENINGS, CLEARANCES AND SLOPE TOLERANCES SHALL CONFORM WITH THE ARCHITECTURAL ACCESS BOARD (AAB), 521 CMR AND MASSHIGHWAY CONSTRUCTION AND TRAFFIC STANDARD DRAWINGS.
- ITEMS LABELED "REM" SHALL BE REMOVED AND DISCARDED BY CONTRACTOR.
- THE CONTRACTOR SHALL PROTECT EXISTING SURVEY MONUMENTS AND SHALL RESET ANY MONUMENTATION DISTURBED BY HIS OPERATIONS.
- THE CONTRACTOR SHALL INSTALL OTHER NECESSARY TEMPORARY REGULATORY AND WARNING SIGNS DURING CONSTRUCTION AS REQUIRED BY THE ENGINEER FOR OTHER INCIDENTAL CONSTRUCTION ACTIVITIES. ALL SIGNAGE AND TRAFFIC CONTROL DEVICES USED MUST CONFORM TO THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND THE MASSACHUSETTS AMENDMENTS.
- THE CONTRACTOR SHALL PERFORM WORK IN A MANNER ACCEPTABLE TO THE ENGINEER SO THAT INTERFERENCE WITH AND INCONVENIENCE TO BUSINESS CONCERNS AND ABUTTERS, ON ACCOUNT OF THE CONSTRUCTION WORK, IS KEPT TO A MINIMUM.
- THE CONTRACTOR SHALL NOT BE ALLOWED TO PARK EQUIPMENT OR STOCKPILE EQUIPMENT OR MATERIAL ON THE TRAVELED WAYS OVERNIGHT OR WHEN NOT IN USE.
- THE CONTRACTOR SHALL MAINTAIN SAFE AND RESPONSIBLE ACCESS TO AND FROM ABUTTING PROPERTY, PRIVATE WAYS, DRIVEWAYS AND ALL ALLEYS AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
- ALL DETECTABLE WARNING PANELS SHALL BE MOUNTED IN CEMENT CONCRETE AND INSTALLED IN ACCORDANCE WITH MASSDOT CONSTRUCTION STANDARD DETAIL E107.6.5.

SURVEY NOTES:

- COORDINATES, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (2011) Epoch 2010.00, BASED ON THE KeyNetGPS VIRTUAL REFERENCE SYSTEM (VRS) NETWORK.
- ELEVATIONS, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED ON THE KeyNetGPS VIRTUAL REFERENCE SYSTEM (VRS) NETWORK.
- SUBSURFACE UTILITY LINES AND FEATURES, AS SHOWN HEREON, WERE COMPILED FROM OBSERVED SURFACE EVIDENCE AND/OR AVAILABLE RECORD INFORMATION (SEE REFERENCES), AND THEIR LOCATIONS ARE ONLY APPROXIMATE. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD.  
  
DAWOOD ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.  
  
BEFORE DESIGNING FUTURE CONNECTIONS, THE APPROPRIATE UTILITIES MUST BE CONSULTED.  
  
BEFORE CONSTRUCTION, ALL UTILITIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED (SEE MASSACHUSETTS GENERAL LAWS, CHAPTER 82 SECTION 40). CALL "DIG SAFE" 1-888-DIG-SAFE. (888-344-7233).
- THIS SURVEY HAS BEEN COMPILED FROM MOBILE LIDAR POINT CLOUD DATA AND IMAGERY CAPTURED WITH SMC'S TRIMBLE MX50 MOBILE LIDAR AND SPATIAL IMAGING SYSTEM, SUPPLEMENTED WITH FIELD SURVEY TO LOCATE UTILITIES AND FEATURES NOT CAPTURED IN LIDAR POINT CLOUD DATA IN JULY 2022.
- ABUTTING PROPERTY LINES ARE SHOWN APPROXIMATELY HEREON FROM TOWN ASSESSORS' GIS INFORMATION.

PLAN REFERENCES:

MIDDLESEX SOUTH REGISTRY OF DEEDS

- 1880 COUNTY LAYOUT OF LOWELL STREET
- 1884 COUNTY LAYOUT OF FOREST STREET
- 1892 COUNTY LAYOUT OF APPLETON STREET
- 1892 COUNTY LAYOUT OF MASSACHUSETTS AVENUE
- 1893 COUNTY LAYOUT OF MASSACHUSETTS AVENUE
- 1925 PLAN AND PROFILE OF BURTON STREET ON FILE AT THE TOWN OF ARLINGTON
- 1929 PLAN AND PROFILE OF RICHARDSON AVENUE ON FILE AT THE TOWN OF ARLINGTON
- 1930 PLAN AND PROFILE OF MASSACHUSETTS AVENUE ON FILE AT THE TOWN OF ARLINGTON
- 1933 PLAN AND PROFILE OF APPLETON PLACE ON FILE AT THE TOWN OF ARLINGTON
- LCP 13906-A
- PLAN BOOK 121, PLAN 19
- PLAN BOOK 185, PLAN 11
- PLAN BOOK 216, PLAN 13
- PLAN BOOK 339, PLAN 10
- PLAN BOOK 358, PLAN 11
- PLAN BOOK 374, PLAN 20
- PLAN BOOK 399, PLAN 22
- PLAN 829 OF 1983
- PLAN 535 OF 1993
- PLAN 83 OF 2003
- PLAN 1072 OF 2007

UTILITY REFERENCES:

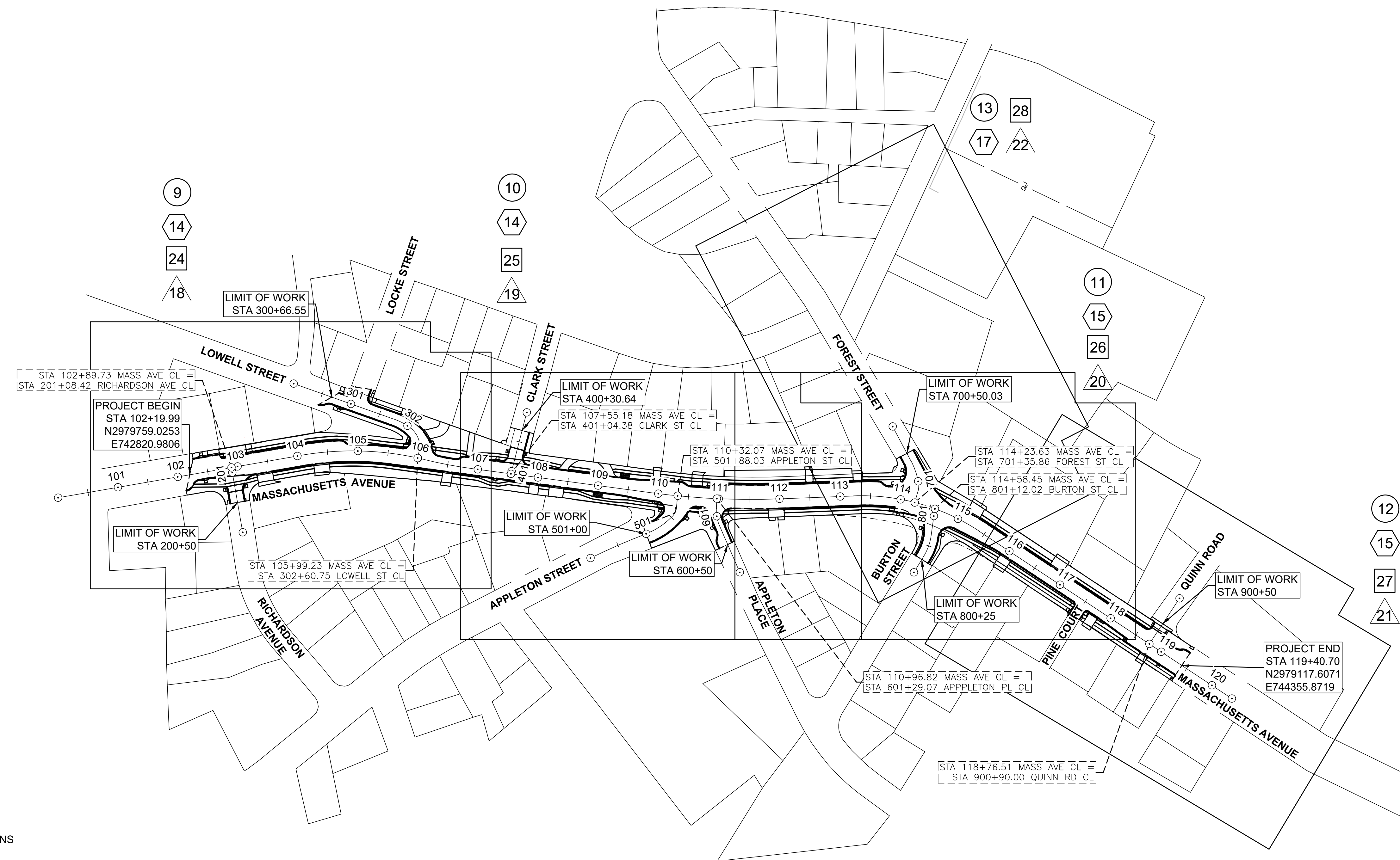
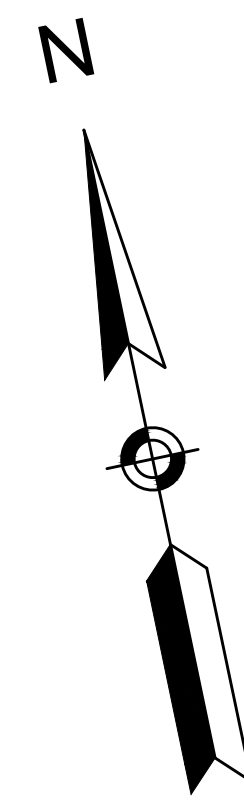
- COMCAST PLAN OF CABLE FACILITIES DATED JUNE 21, 2022.
- EVERSOURCE PLAN OF ELECTRIC FACILITIES DATED JUNE 6, 2022.
- SEWER PLANS 2241, 2371, 2372, 2373, 2381, 2665, 3468 AND 4528 PROVIDED BY THE TOWN OF ARLINGTON ENGINEERING DEPARTMENT.
- DRAINAGE PLANS 1992, 1994, 2089, 3098, 3423, 3468, 4528, 5522 AND 7464 PROVIDED BY THE TOWN OF ARLINGTON ENGINEERING DEPARTMENT.
- WATER PLANS OF MEDFORD STREET, MYSTIC STREET AND CHESTNUT STREET REVISED 1932 PROVIDED BY THE TOWN OF ARLINGTON ENGINEERING DEPARTMENT.
- LUMEN PLAN OF FIBER OPTIC FACILITIES DATED JUNE 7, 2022
- MWRA SEWER PLANS 3013, 3014, 3015, 3023, 3024, 3025, 3812, 7603, 8892-1, 8892-2, 10654-1 AND 10657-3.
- MWRA WATER PLANS 500165, B5756 AND B5757.
- NATIONAL GRID GAS PLAN OF FACILITIES DATED JUNE 9, 2022.
- RCN PLANS OF CABLE FACILITIES DATED JUNE 6, 2022.\
- NO RECORD PLANS PROVIDED BY VERIZON.
- ZAYO TELECOM PLANS OF FACILITIES DATED JUNE 20, 2022.

ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	3	48
STARTED FILE NO.		179411056	

GENERAL NOTES





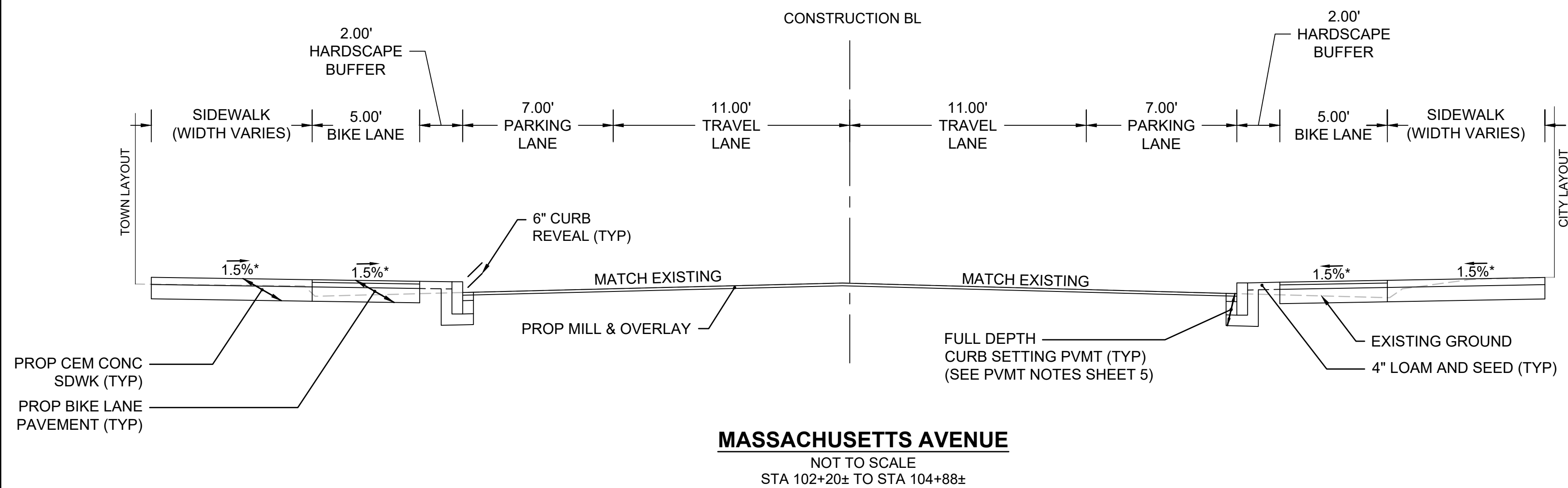
- LEGEND
- (X) CONSTRUCTION PLANS
  - (X) PROFILES
  - (X) SIGN & PAVEMENT MARKING PLANS
  - (X) DRAINAGE AND UTILITY PLANS



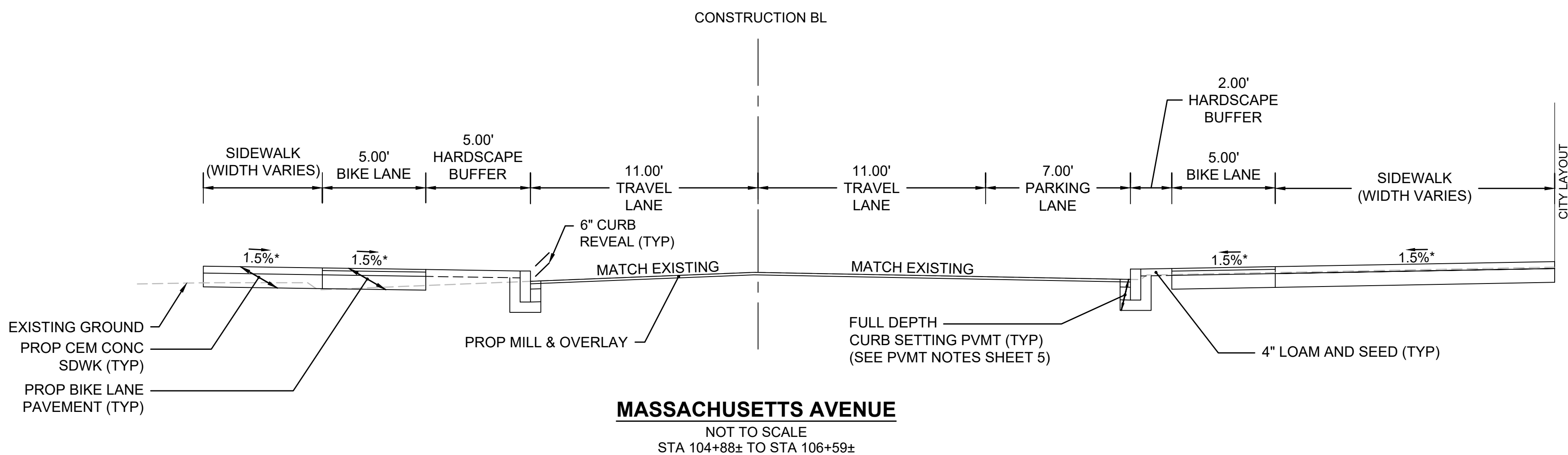


ARLINGTON APPLETON STREET & MASS AVE			
STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	5	48
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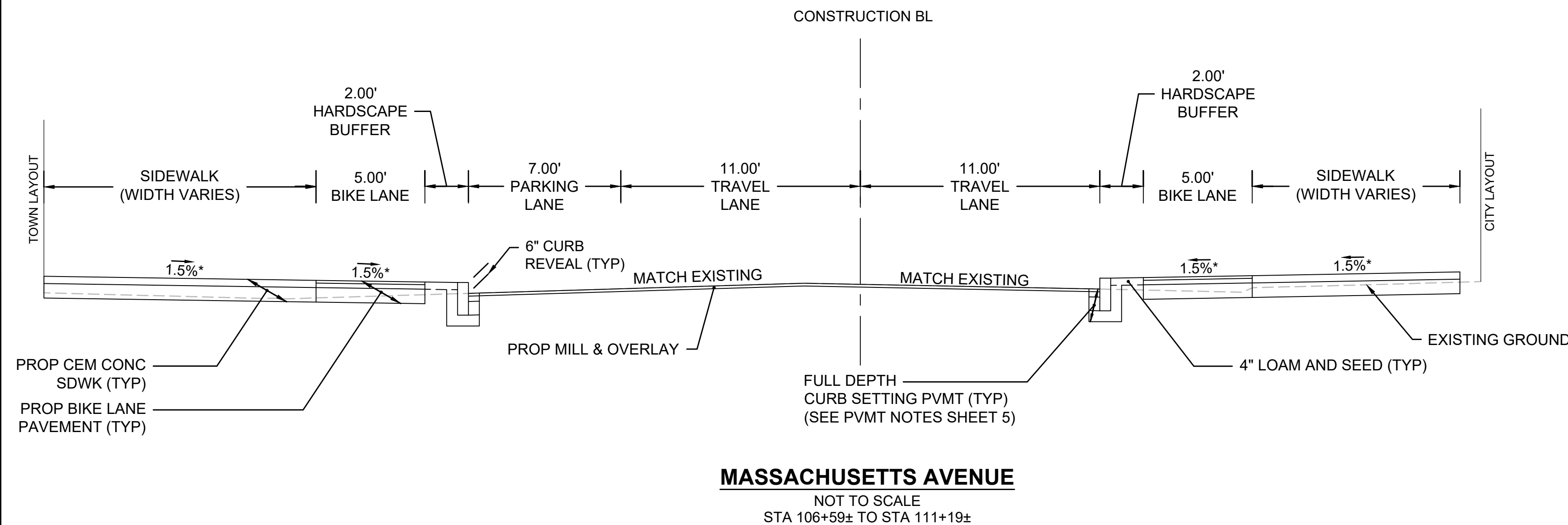
TYPICAL SECTIONS  
PART 1 OF 5



**MASSACHUSETTS AVENUE**  
NOT TO SCALE  
STA 102+20± TO STA 104+88±



**MASSACHUSETTS AVENUE**  
NOT TO SCALE  
STA 104+88± TO STA 106+59±



**MASSACHUSETTS AVENUE**  
NOT TO SCALE  
STA 106+59± TO STA 111+19±

## PAVEMENT NOTES

### PROPOSED FULL DEPTH BIKE LANE

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5)  
OVER

INTERMEDIATE: 2-1/2" SUPERPAVE INTERMEDIATE COURSE 19.0  
(SIC-19.0) OVER

BASE: 8" (MIN) GRAVEL BORROW, TYPE b

### CEMENT CONCRETE SIDEWALK AND PEDESTRIAN CURB RAMP

SURFACE: 4" CEMENT CONCRETE OVER  
(4000psi, 3/4", 610 lbs. AIR ENTRAINED)

BASE: 8" (MIN) GRAVEL BORROW, TYPE b

### PROPOSED MILL AND OVERLAY PAVEMENT

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5)

PAVEMENT MILLING: 1-1/2" FINE MILLING

### PROPOSED FULL DEPTH CURB SETTING PAVEMENT

SEE METHOD OF SETTING VERTICAL GRANITE CURB  
DETAIL ON SHEET XX

SURFACE: 1-1/2" HOT MIX ASPHALT FOR PATCHING

INTERMEDIATE: 3" HOT MIX ASPHALT FOR PATCHING

BASE: 7.5"± CEMENT CONCRETE OVER  
(4000psi, 3/4", 610 lbs. AIR ENTRAINED)

SUBBASE: 6" (MIN) GRAVEL BORROW, TYPE b

### PROPOSED FULL DEPTH PAVEMENT

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)

INTERMEDIATE: 2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)

BASE: 4-1/2" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5)

SUBBASE: 4" DENSE GRADED CRUSHED STONE, OVER  
8" GRAVEL BORROW, TYPE b

\* TOLERANCE FOR CONSTRUCTION ±0.5% (TYP)

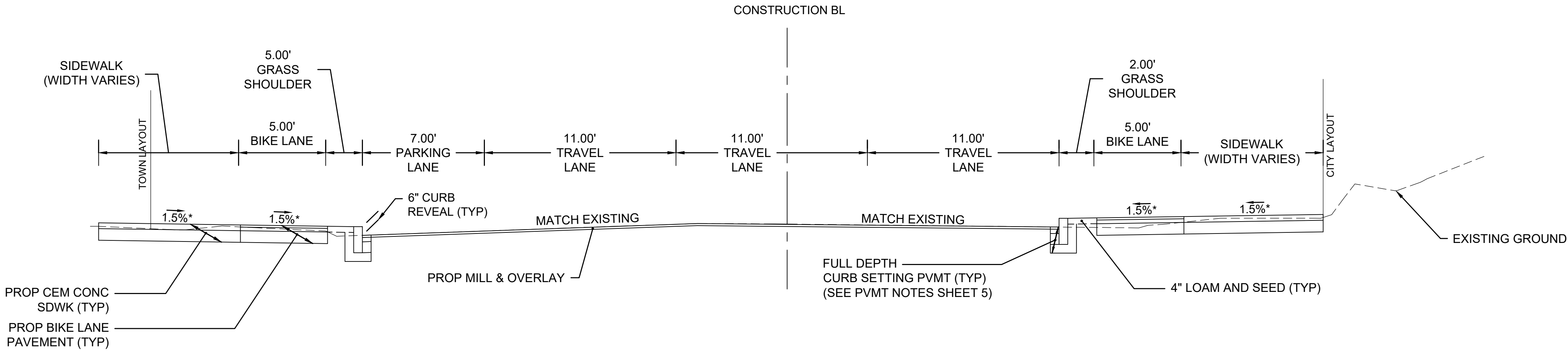
### NOTE:

- BITUMEN FOR TACK COAT SHALL BE SPRAY APPLIED FOR DOUBLE OVERLAP COVERAGE AT 0.08 GAL/SY OVER MILLED SURFACES AND 0.09 GAL/SY OVER SMOOTH SURFACES.
- SEE CONSTRUCTION PLANS FOR LOCATIONS OF PROPOSED EASEMENTS.

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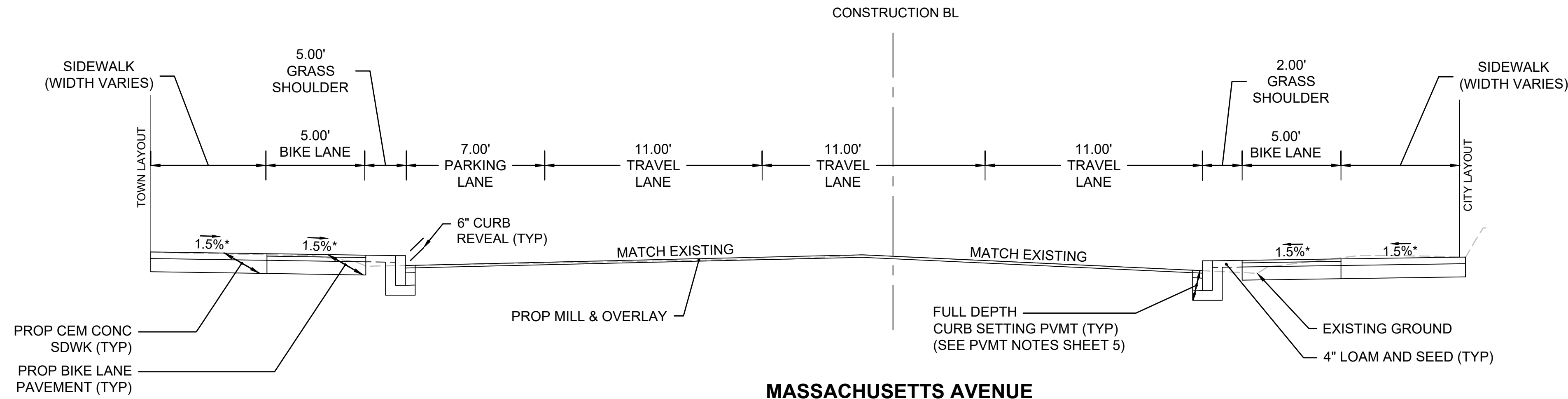
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TYPICAL SECTIONS  
PART 2 OF 5



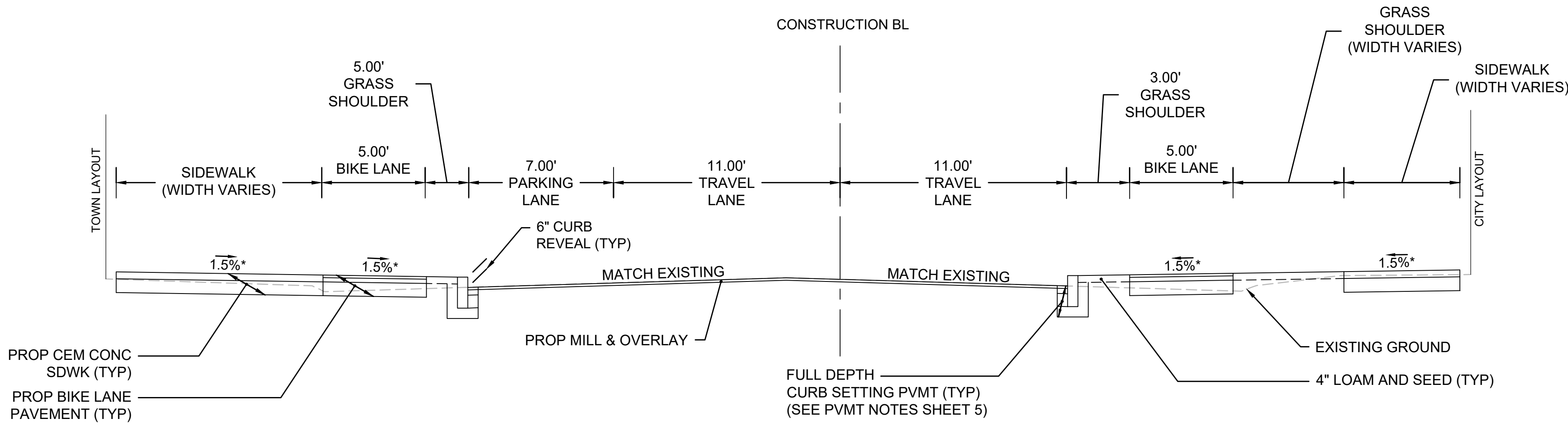
**MASSACHUSETTS AVENUE**

NOT TO SCALE  
STA 111+19± TO STA 112+47±



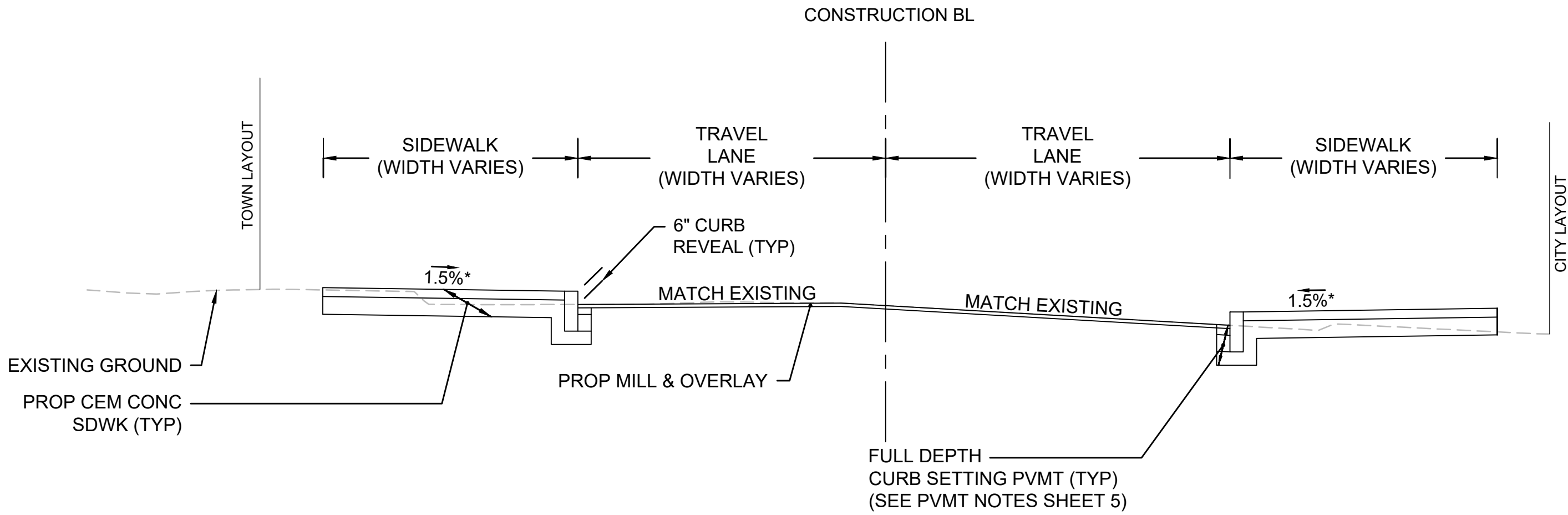
**MASSACHUSETTS AVENUE**

NOT TO SCALE  
STA 112+47± TO STA 113+80±

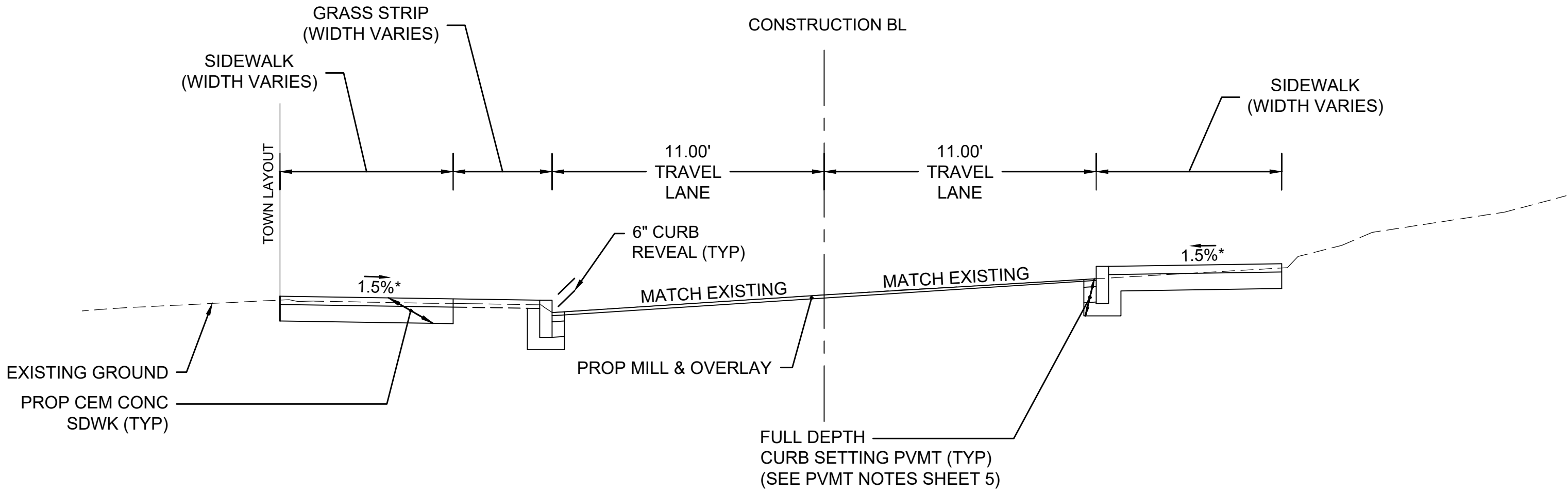


**MASSACHUSETTS AVENUE**

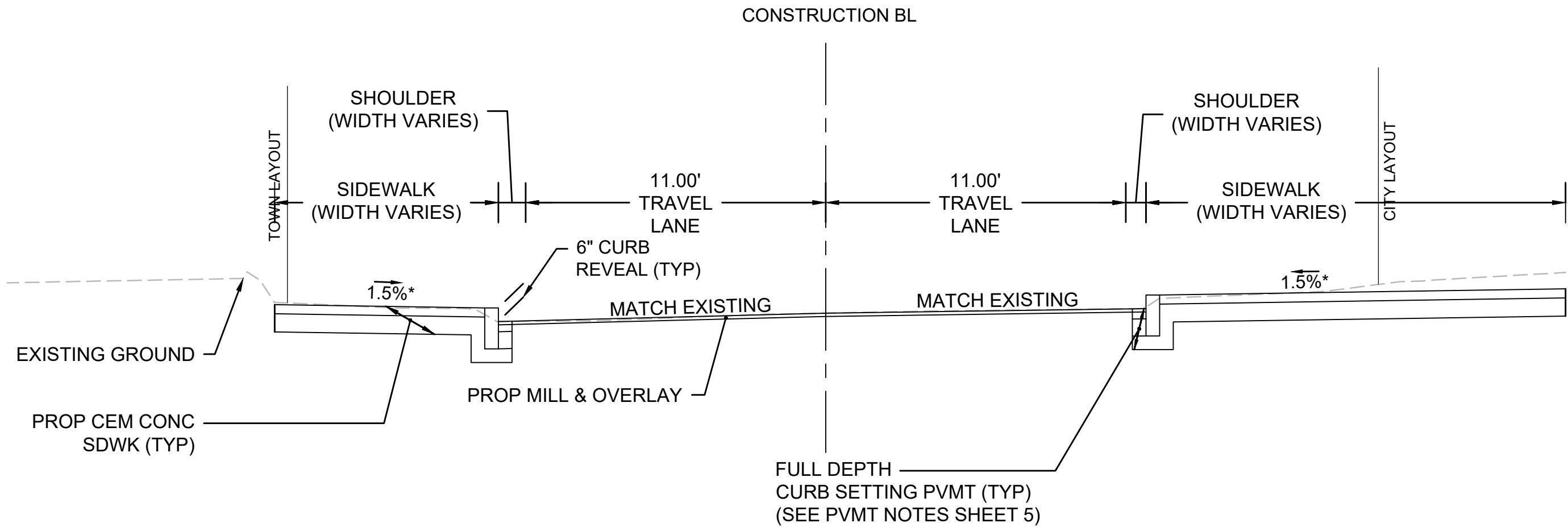
NOT TO SCALE  
STA 113+80± TO STA 119+40±



**RICHARDSON STREET**  
NOT TO SCALE  
STA 200+55± TO STA 201+08±

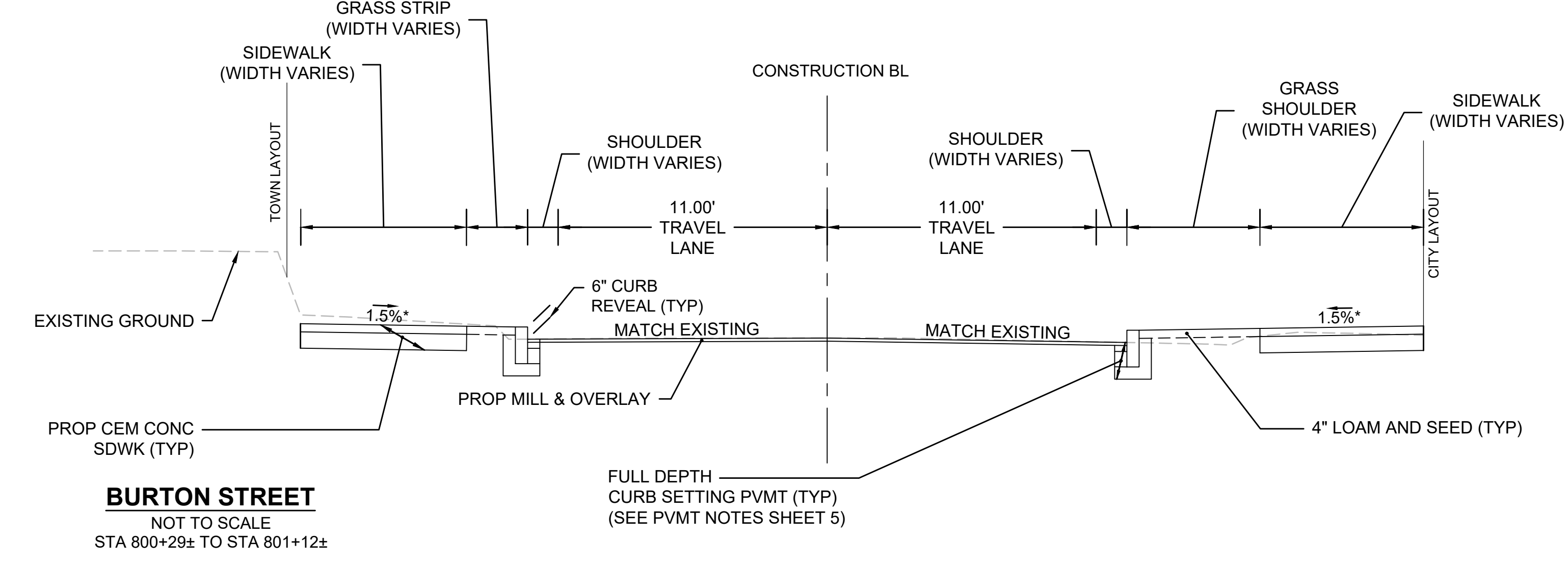
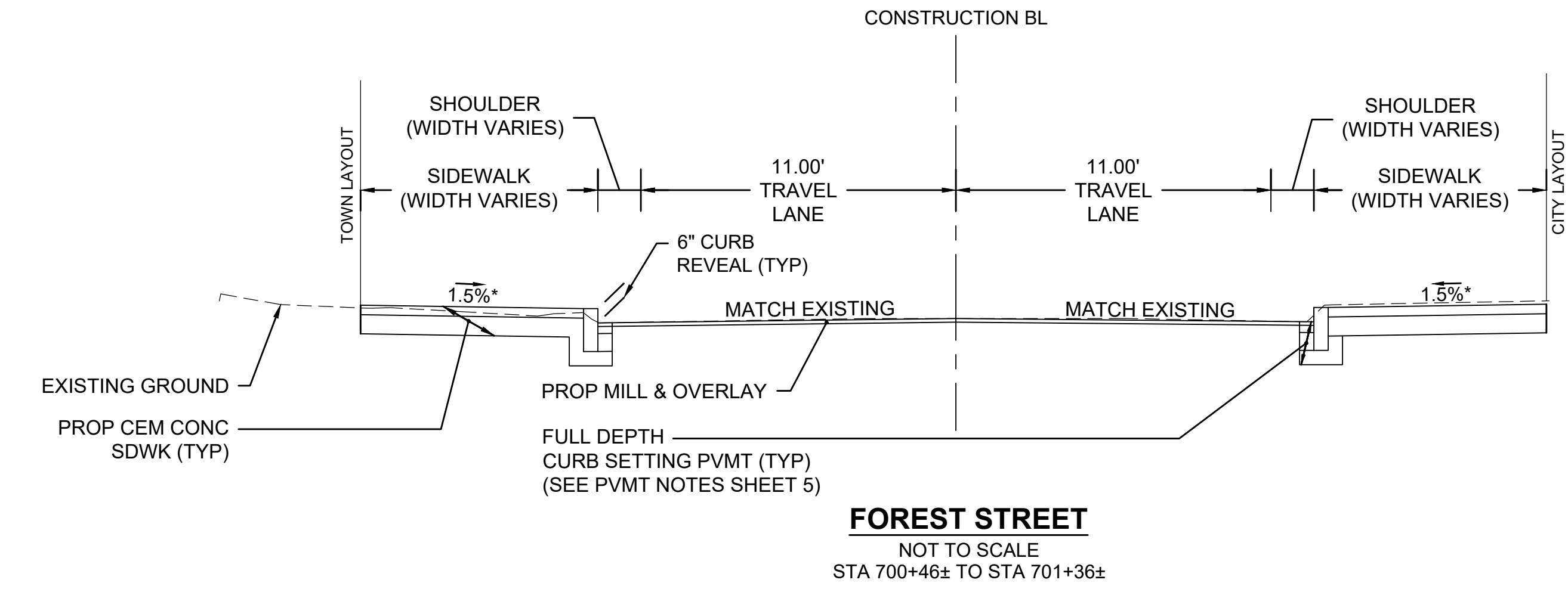
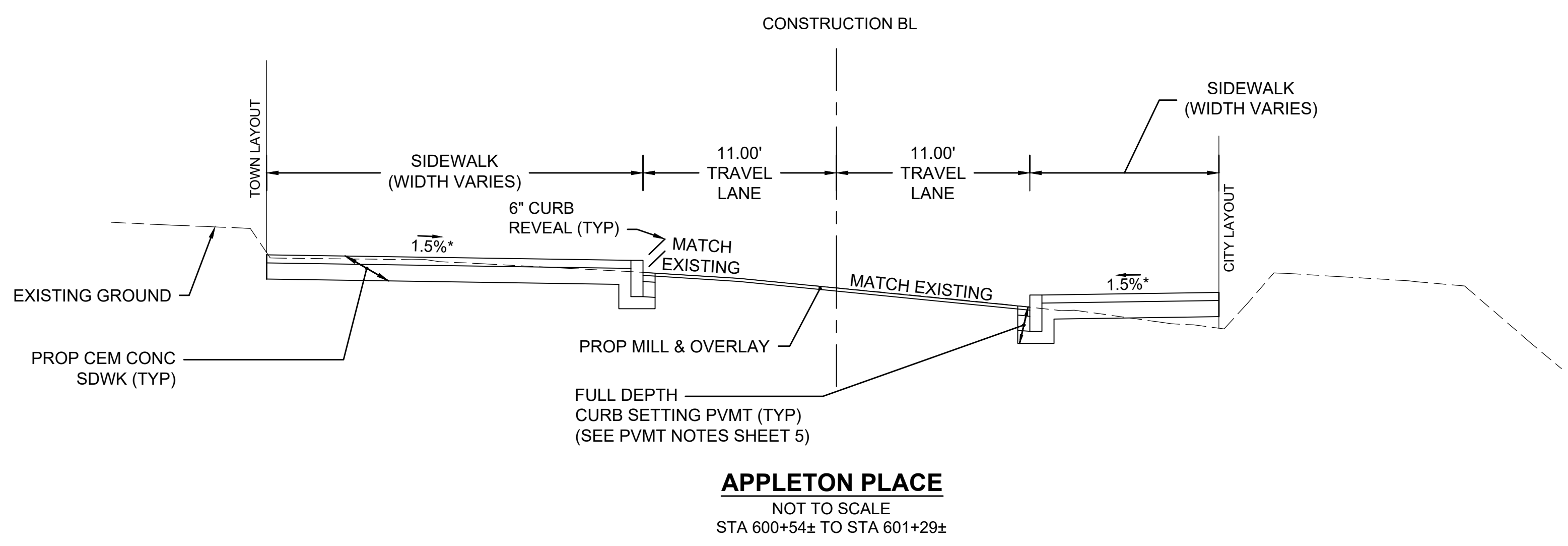
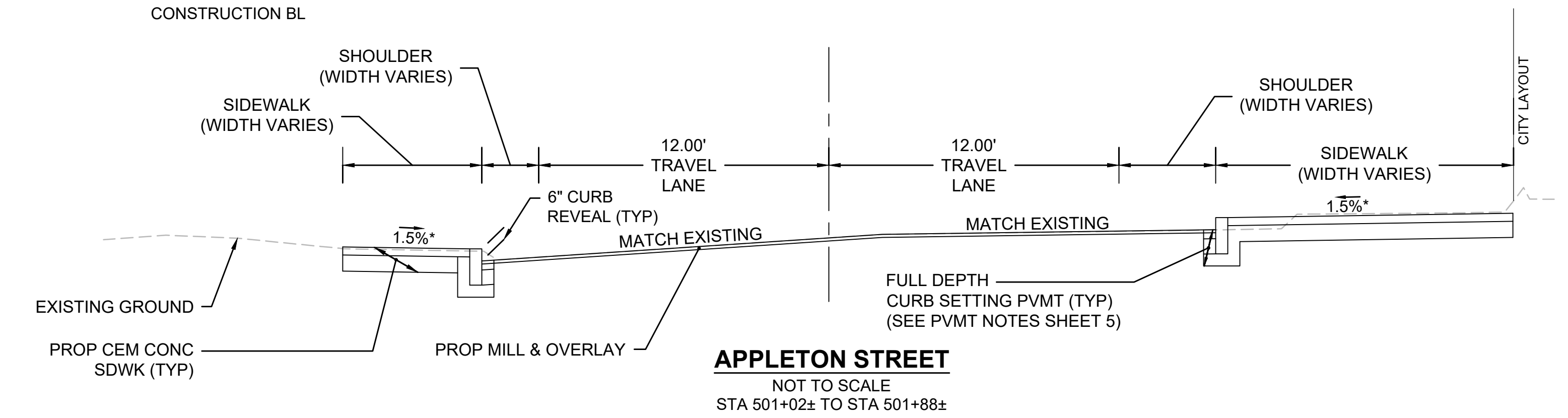


**LOWELL STREET**  
NOT TO SCALE  
STA 300+61± TO STA 302+61±



**CLARK STREET**  
NOT TO SCALE  
STA 400+46± TO STA 401+04±

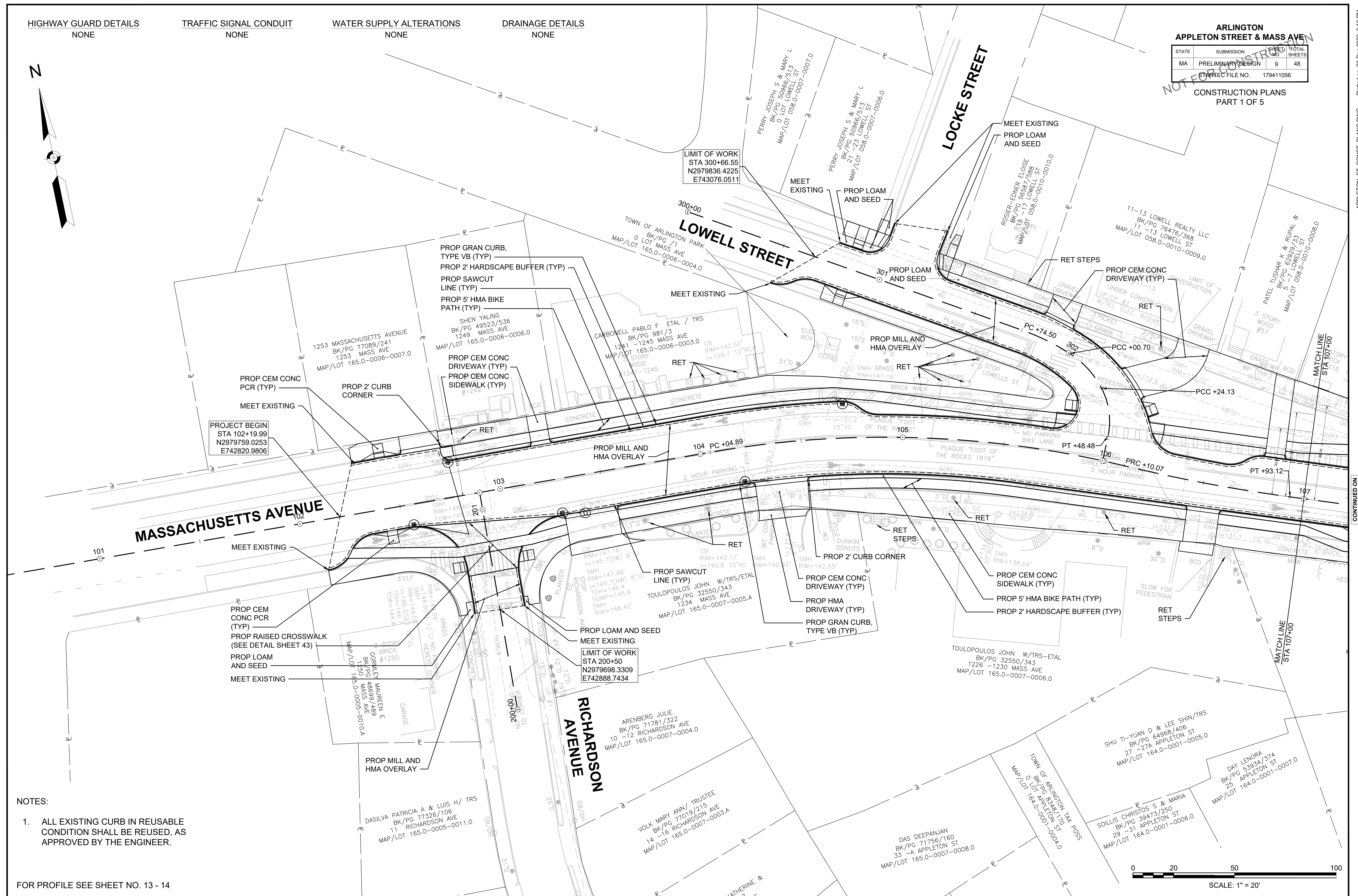






DRAINAGE DETAILS  
NONE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	9	48
STANTEC FILE NO.		179411056	



APPLETON ST CONST PLANS.DWG Plotted on 22-Dec-2023 6:16 PM

CONTINUED ON  
SHEET NO. 18



HIGHWAY GUARD DETAILS  
NONE

TRAFFIC SIGNAL CONDUIT  
NONE

WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
NONE

ARLINGTON  
APPLETON STREET & MASS AVE

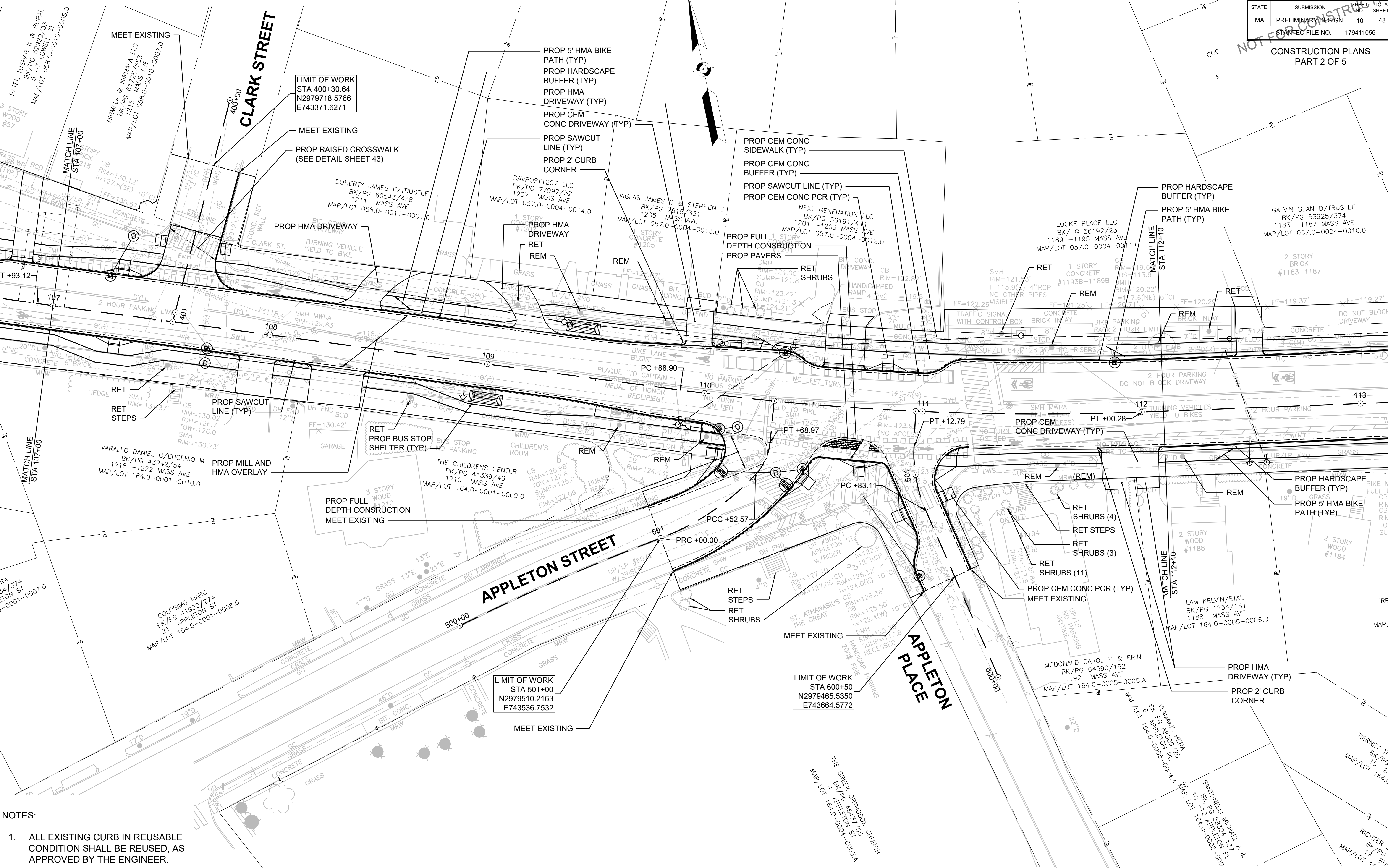
STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	10	48

STARTED FILE NO. 179411056

CONSTRUCTION PLANS  
PART 2 OF 5

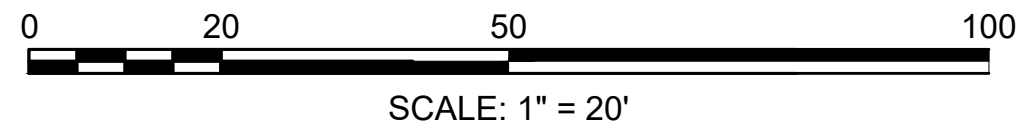
CONTINUED ON  
SHEET NO. 9

CONTINUED ON  
SHEET NO. 11



- NOTES:
- ALL EXISTING CURB IN REUSABLE CONDITION SHALL BE REUSED, AS APPROVED BY THE ENGINEER.

FOR PROFILE SEE SHEET NO. 13 - 14





HIGHWAY GUARD DETAILS  
NONE

TRAFFIC SIGNAL CONDUIT  
NONE

WATER SUPPLY ALTERATIONS  
NONE

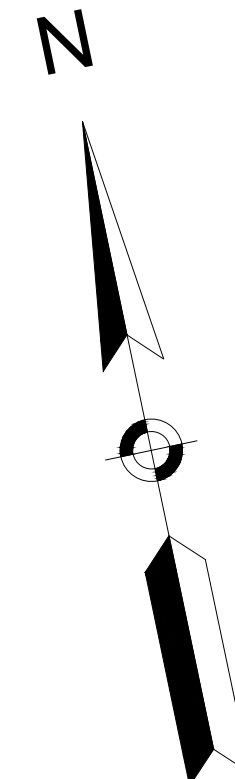
DRAINAGE DETAILS  
NONE

ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	11	48
STARTED FILE NO.		179411056	

CONSTRUCTION PLANS  
PART 3 OF 5

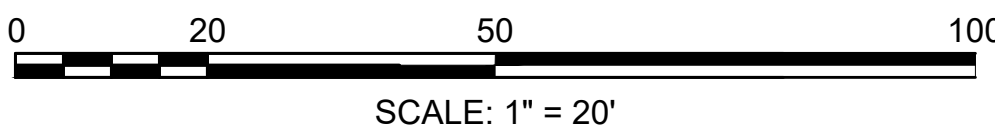
CONTINUED ON  
SHEET NO. 10



NOTES:

- ALL EXISTING CURB IN REUSABLE CONDITION SHALL BE REUSED, AS APPROVED BY THE ENGINEER.

FOR PROFILE SEE SHEET NO. 13 - 14





HIGHWAY GUARD DETAILS  
NONE

TRAFFIC SIGNAL CONDUIT  
NONE

WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
NONE

ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	12	48
STARTED FILE NO.		179411056	

CONSTRUCTION PLANS  
PART 4 OF 5

QUINN ROAD

MASSACHUSETTS AVENUE

PINE COURT

NOTES:

- ALL EXISTING CURB IN REUSABLE CONDITION SHALL BE REUSED, AS APPROVED BY THE ENGINEER.



SCALE: 1" = 20'

CONTINUED ON  
SHEET NO. 11

FOR PROFILE SEE SHEET NO. 13 - 14

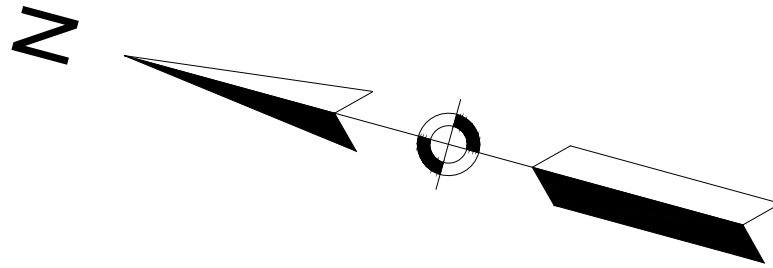


HIGHWAY GUARD DETAILS  
NONE

TRAFFIC SIGNAL CONDUIT  
NONE

WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
NONE



ARLINGTON  
APPLETON STREET & MASS AVE

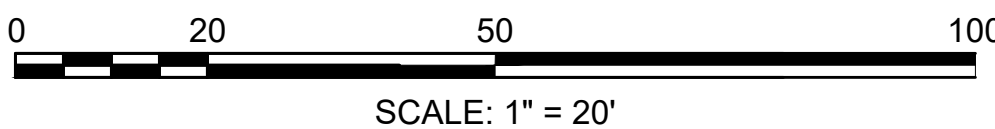
STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	13	48
START/EC FILE NO.		179411056	

CONSTRUCTION PLANS  
PART 5 OF 5

FOR PROPOSED WORK SEE  
SIGN AND PAVEMENT  
MARKINGS PLANS (SHEET 28)

- NOTES:
- ALL EXISTING CURB IN REUSABLE CONDITION SHALL BE REUSED, AS APPROVED BY THE ENGINEER.

FOR PROFILE SEE SHEET NO. 13 - 14



CONTINUED ON  
SHEET NO. 12

CONTINUED ON  
SHEET NO. 14

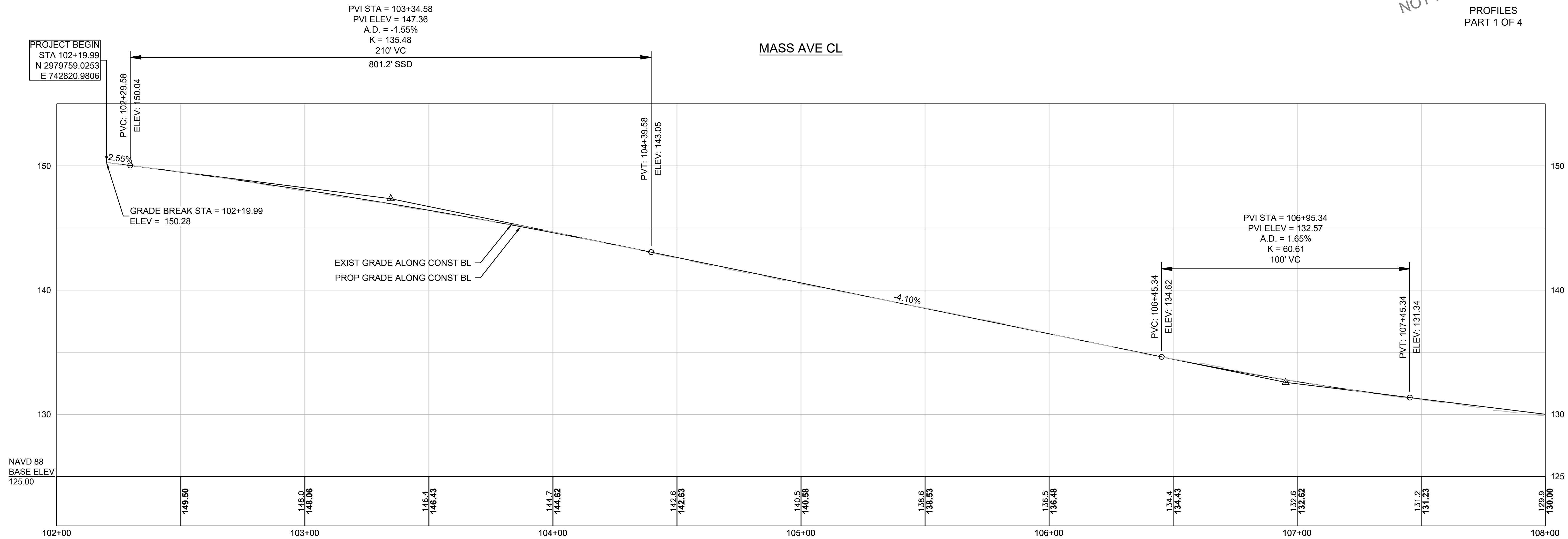
APPLETON\_ST\_CONST\_PLANS.DWG  
Plotted on 22-Dec-2023 6:16 PM



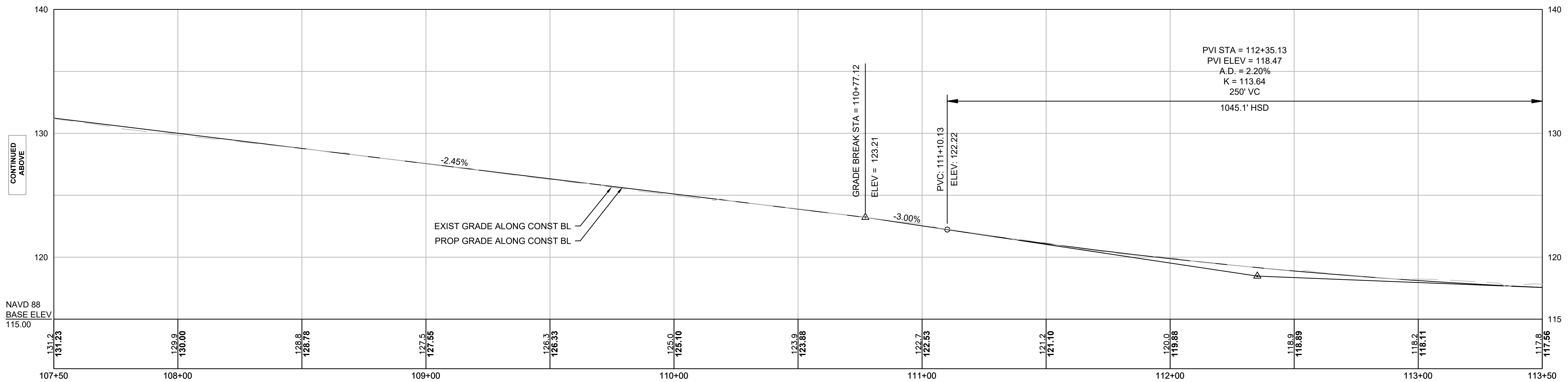
ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	14	48
START/EC FILE NO.		179411056	

PROFILES  
PART 1 OF 4

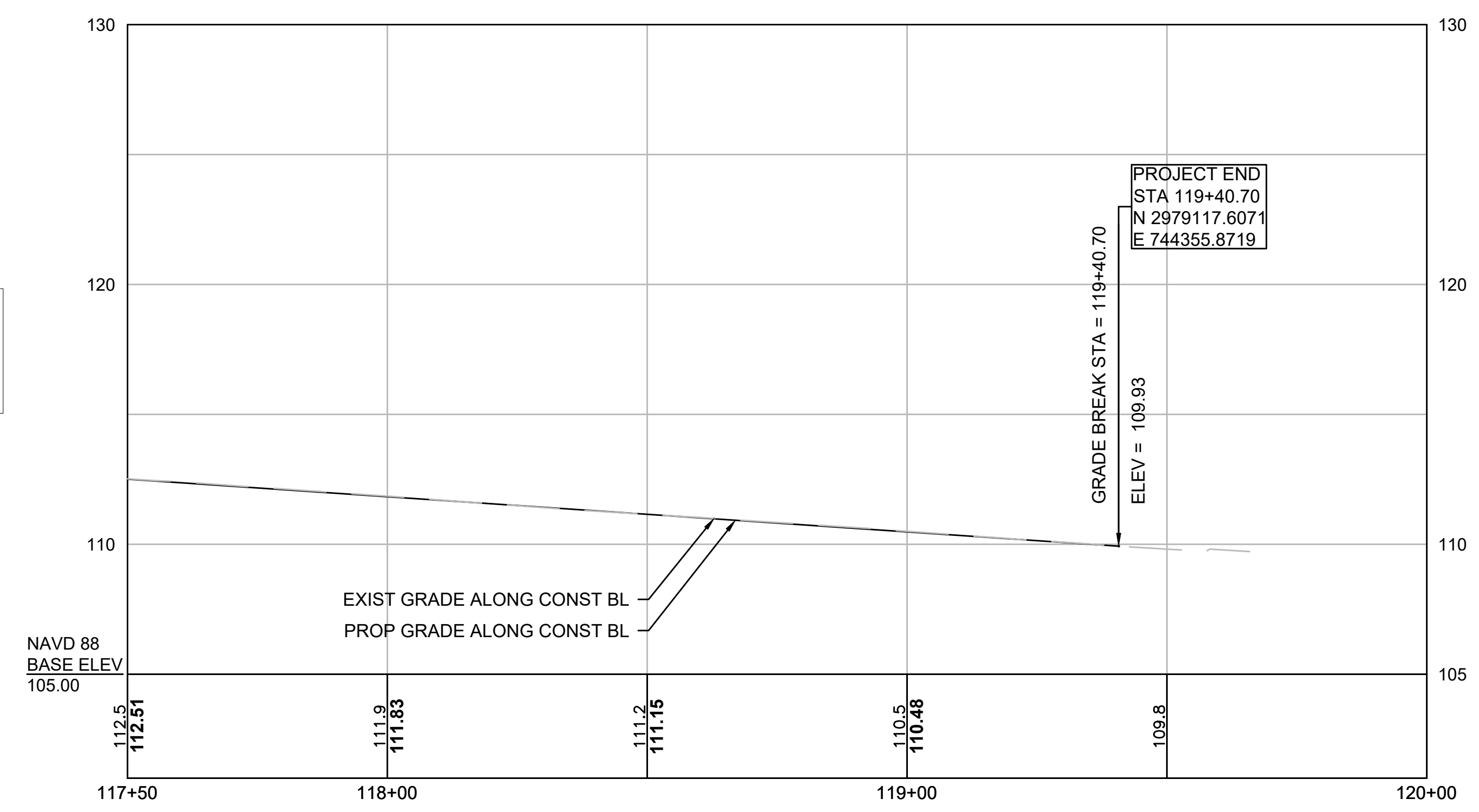
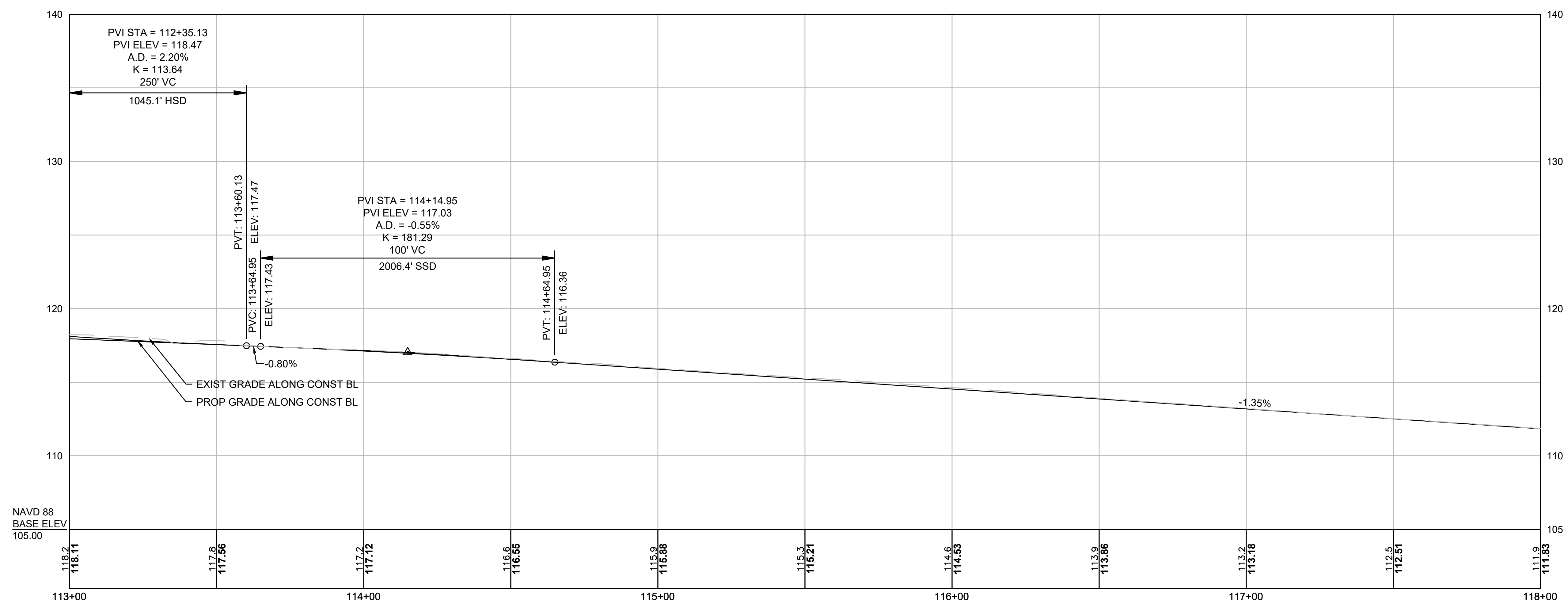


CONTINUED  
BELOW



CONTINUED  
ABOVE

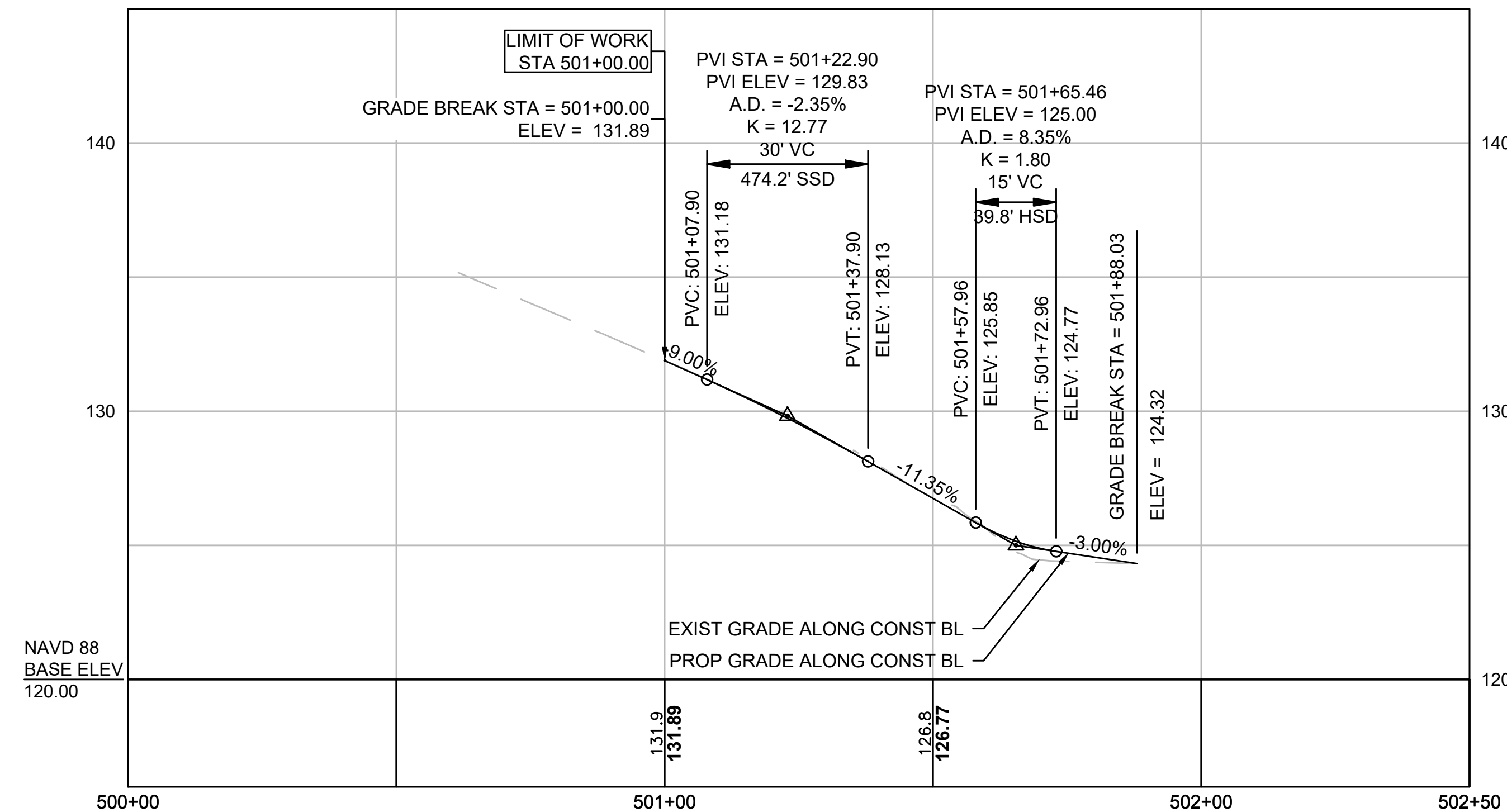
CONTINUED ON  
SHEET NO. 15



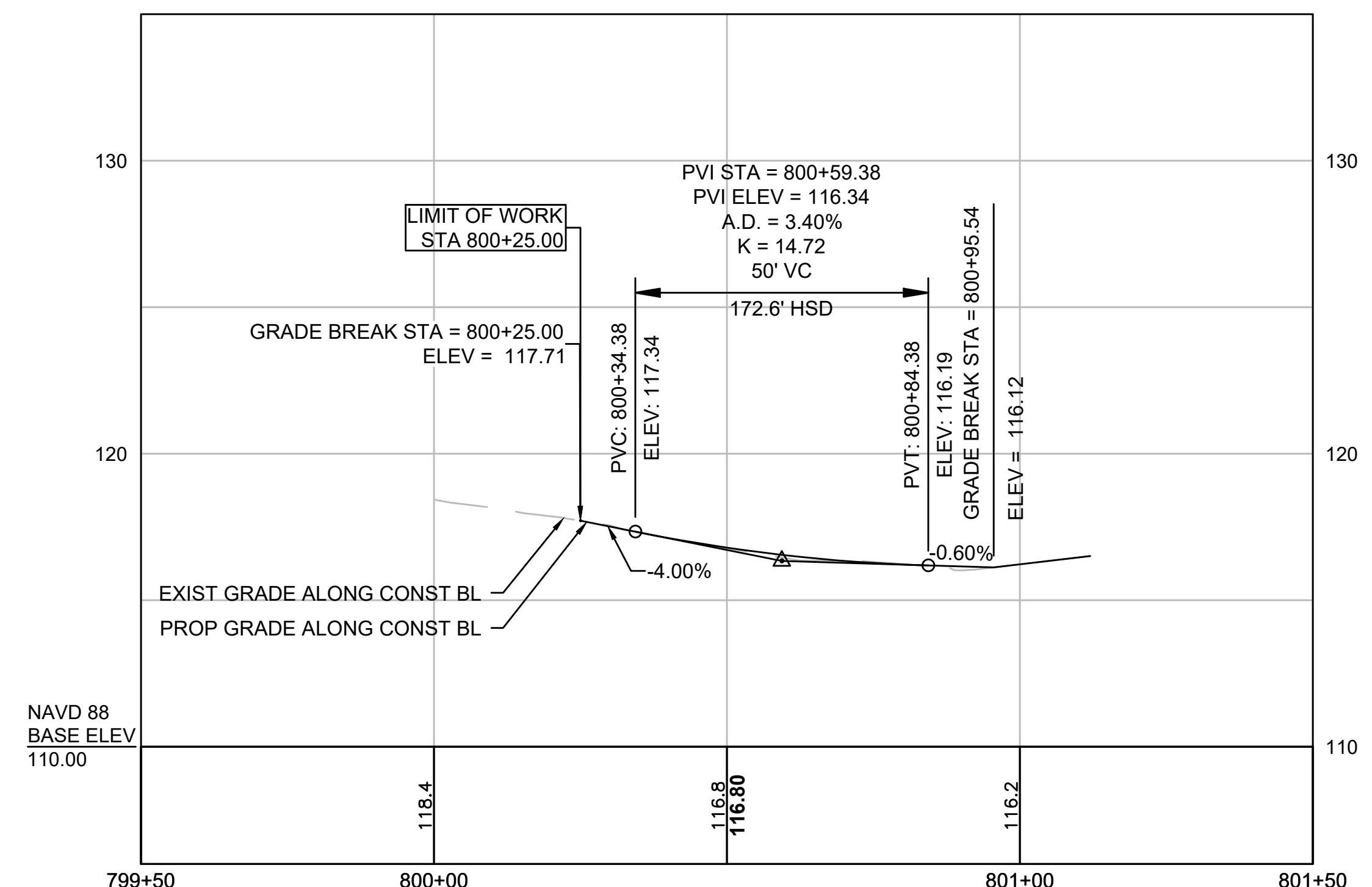
CONTINUED  
BELOW

CONTINUED  
ABOVE

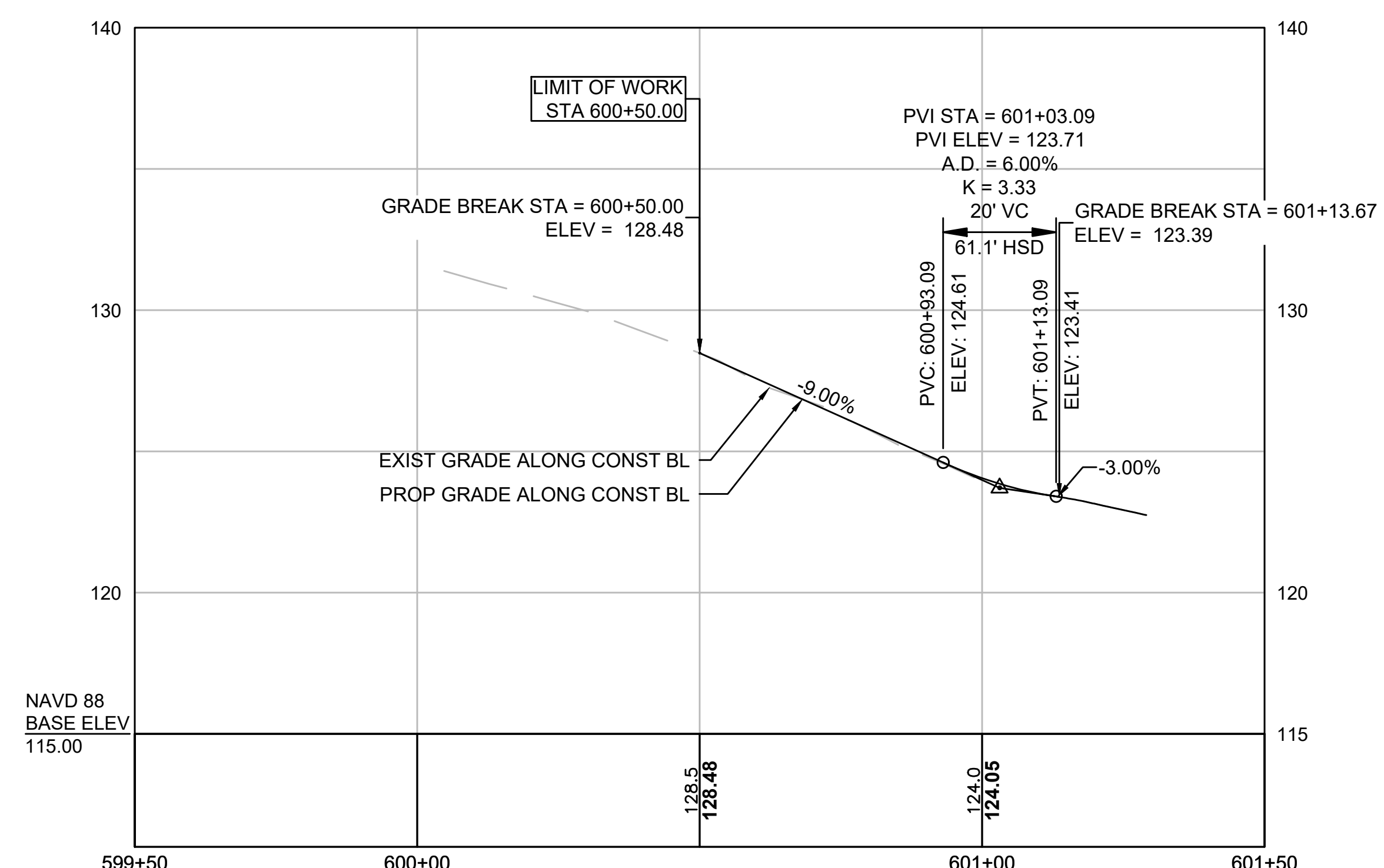
APPLETON ST CL



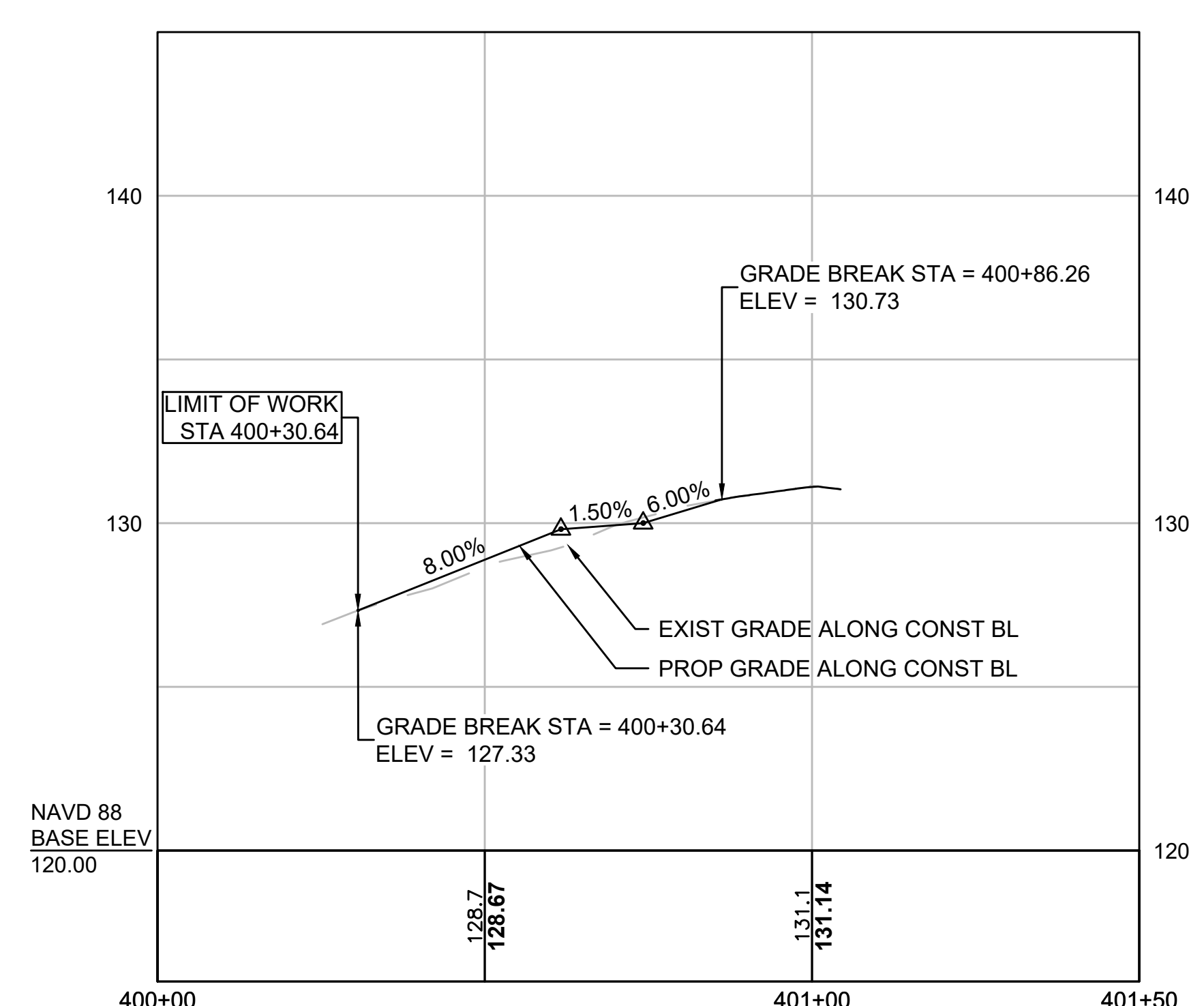
BURTON ST CL



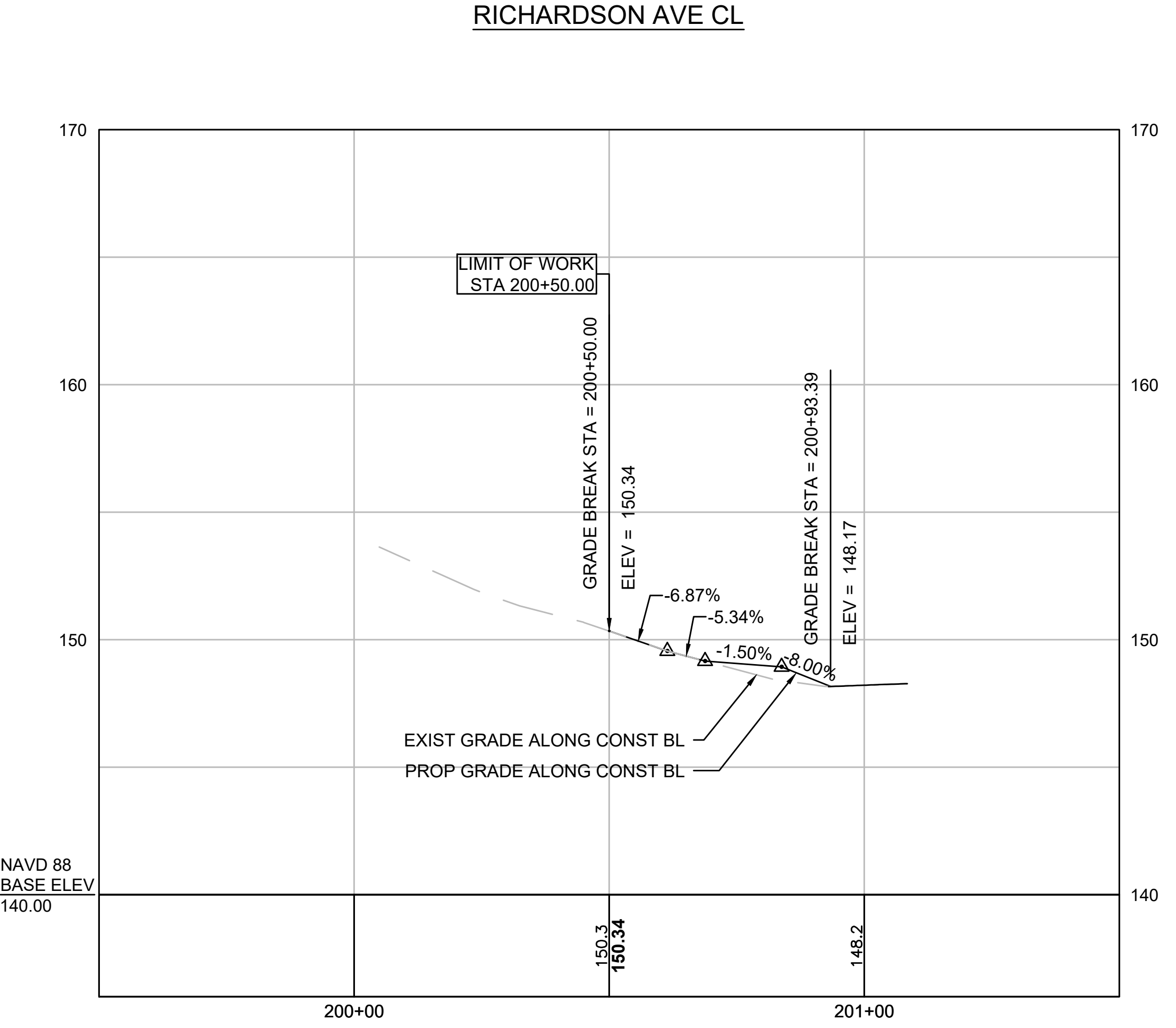
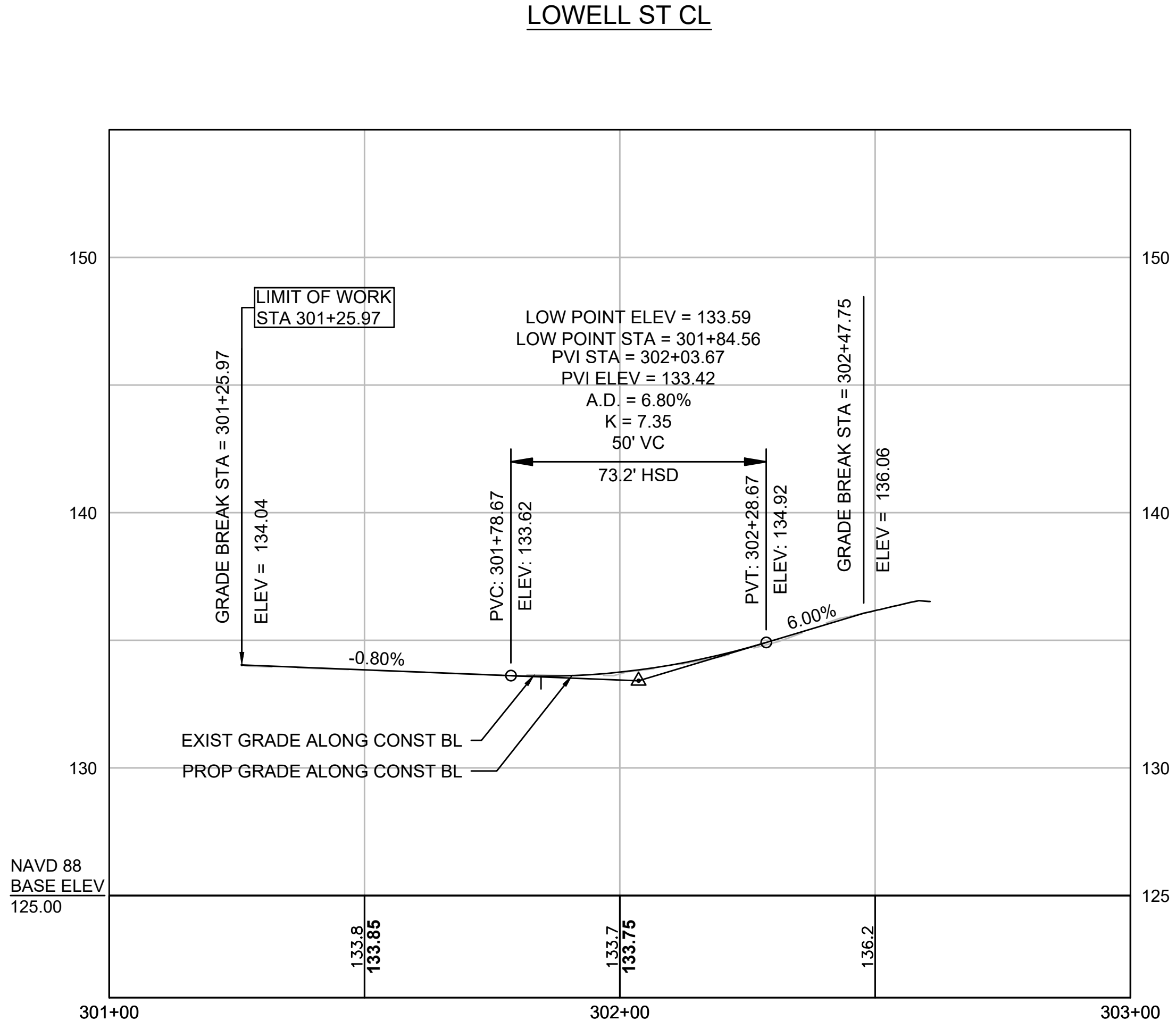
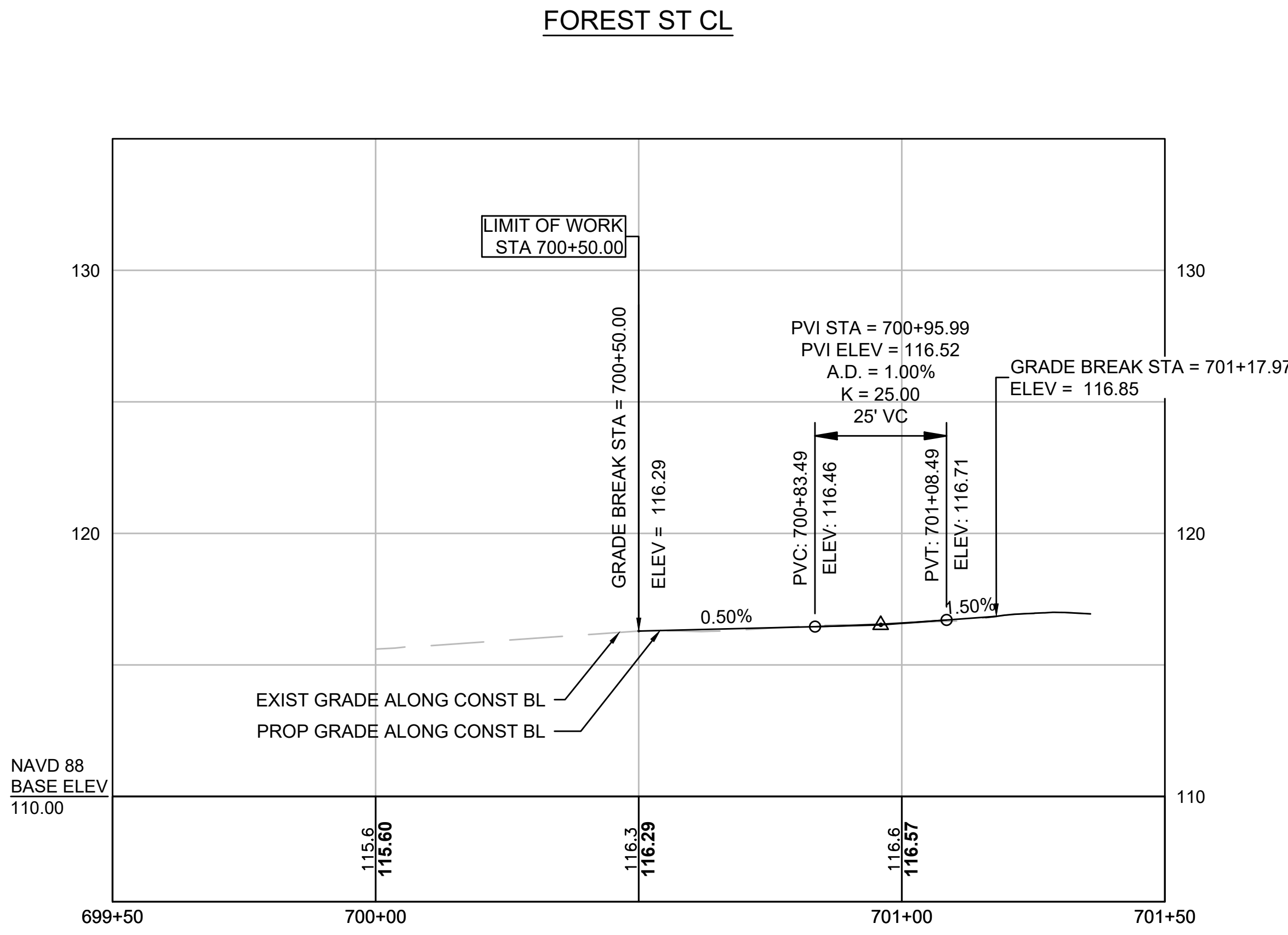
APPPLETON PL CL

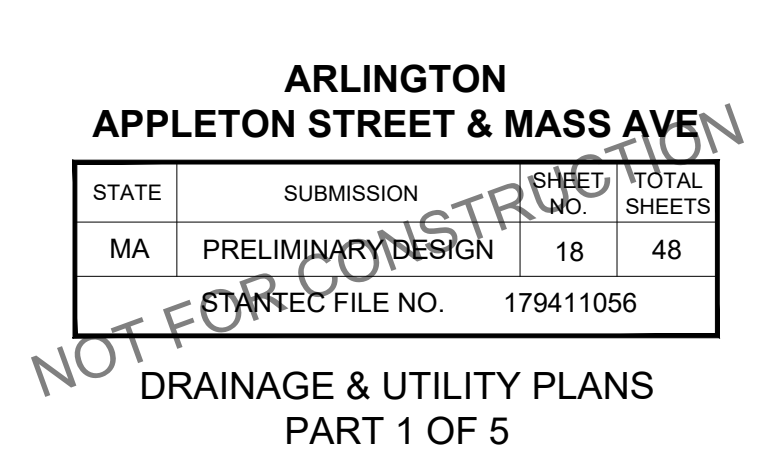


CLARK ST CL









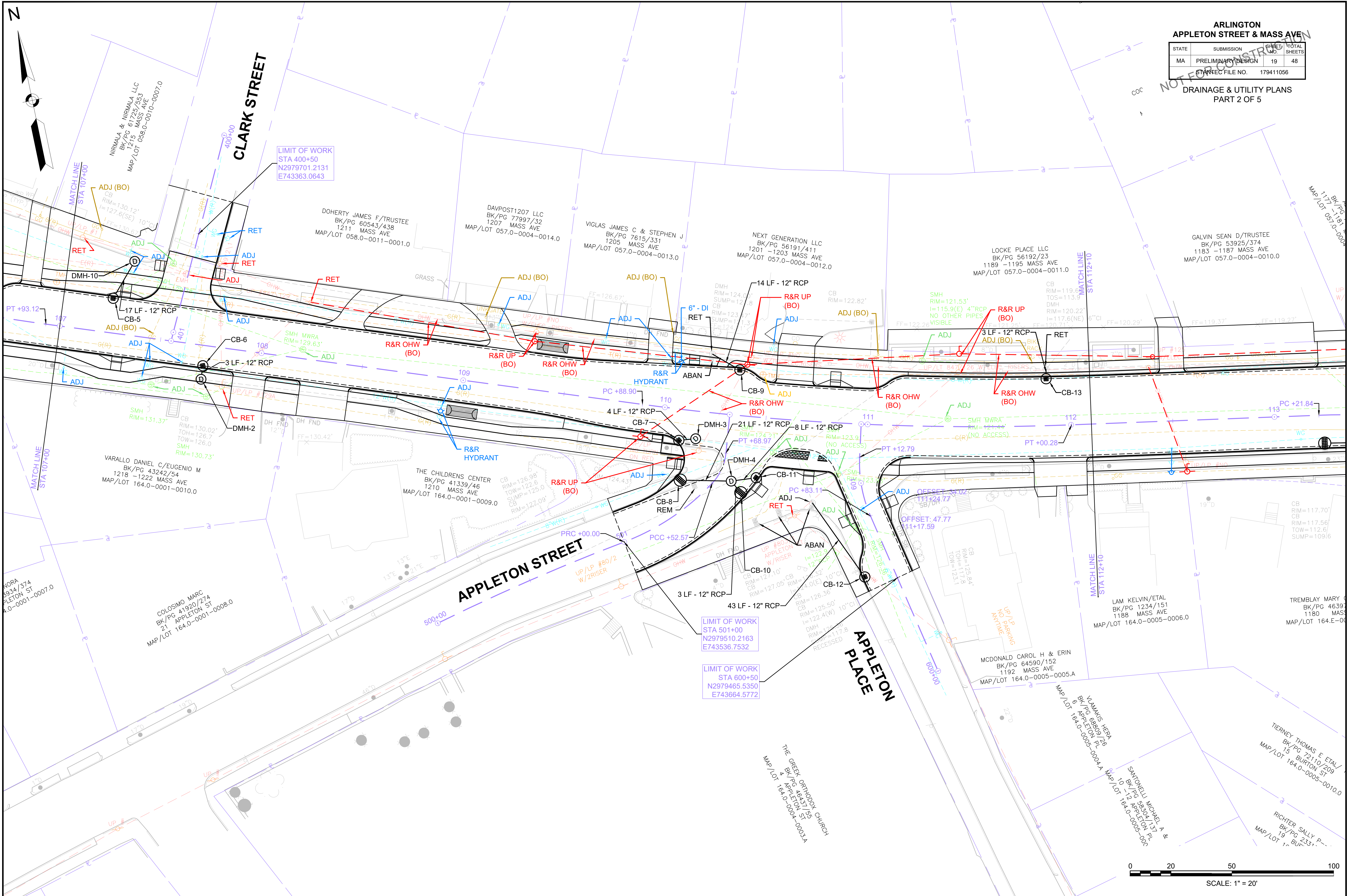
STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	18	48
STANTEC FILE NO.		179411056	

DRAINAGE & UTILITY PLANS  
PART 1 OF 5



CONTINUED ON  
SHEET NO. 19



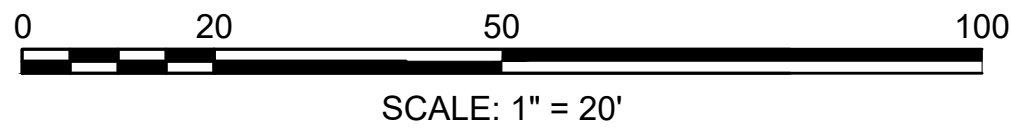


ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	19	48

STARTED FILE NO. 179411056

DRAINAGE & UTILITY PLANS  
PART 2 OF 5

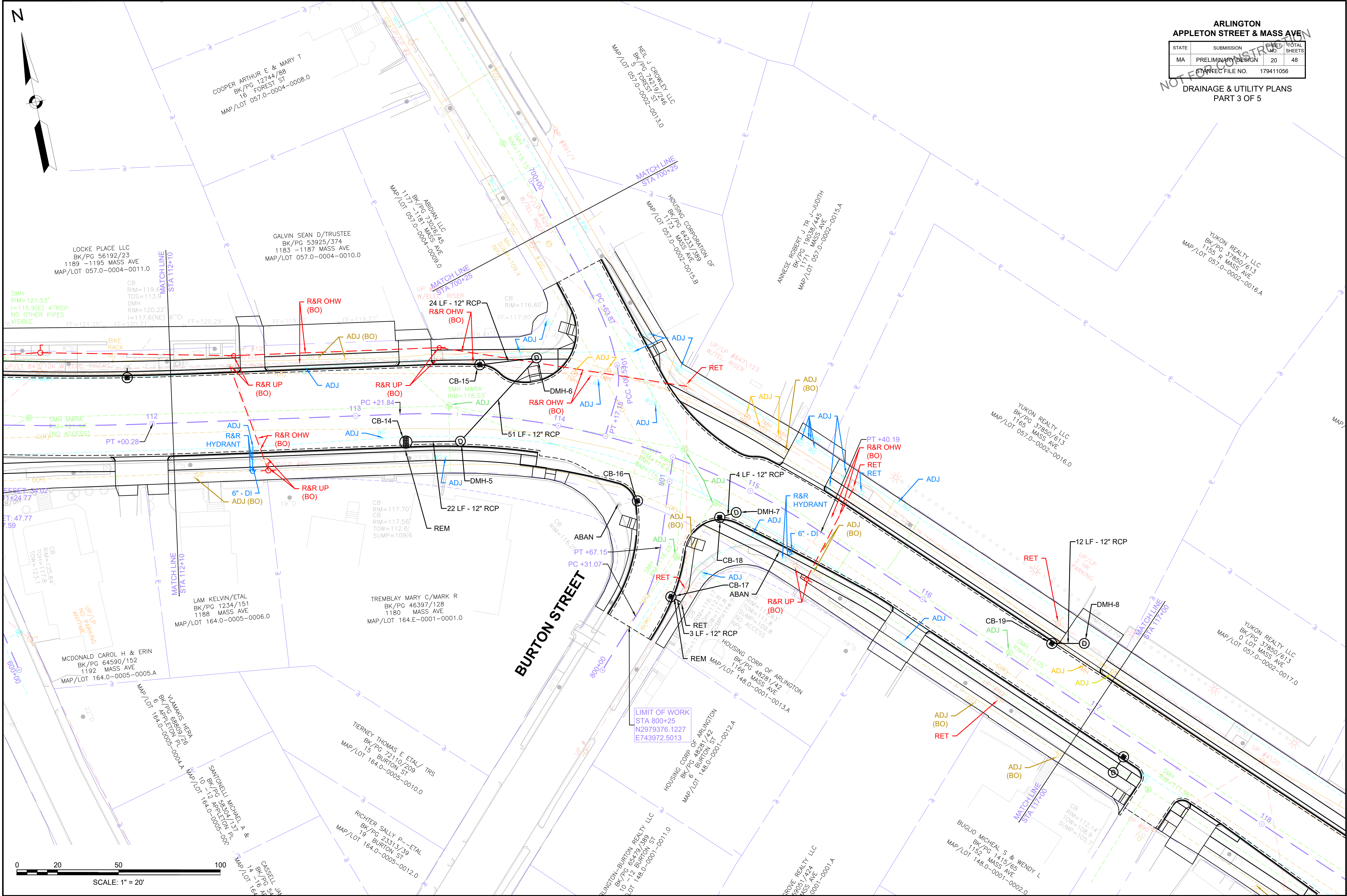


CONTINUED ON  
SHEET NO. 18

CONTINUED ON  
SHEET NO. 20

ARLINGTON  
APPLETON STREET & MASS AVE  
DRAINAGE & UTILITY PLANS  
PART 2 OF 5  
Plotted on 22-Dec-2023 6:15 PM





ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	20	48

STARTED FILE NO. 179411056

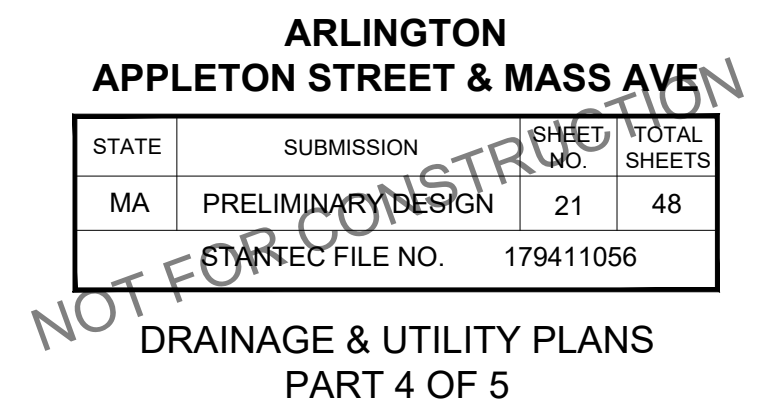
DRAINAGE & UTILITY PLANS  
PART 3 OF 5

CONTINUED ON  
SHEET NO. 19

APPLETON\_ST\_DRAIN\_UTILITY\_PLANS.DWG Plotted on 22-Dec-2023 6:15 PM

CONTINUED ON  
SHEET NO. 21

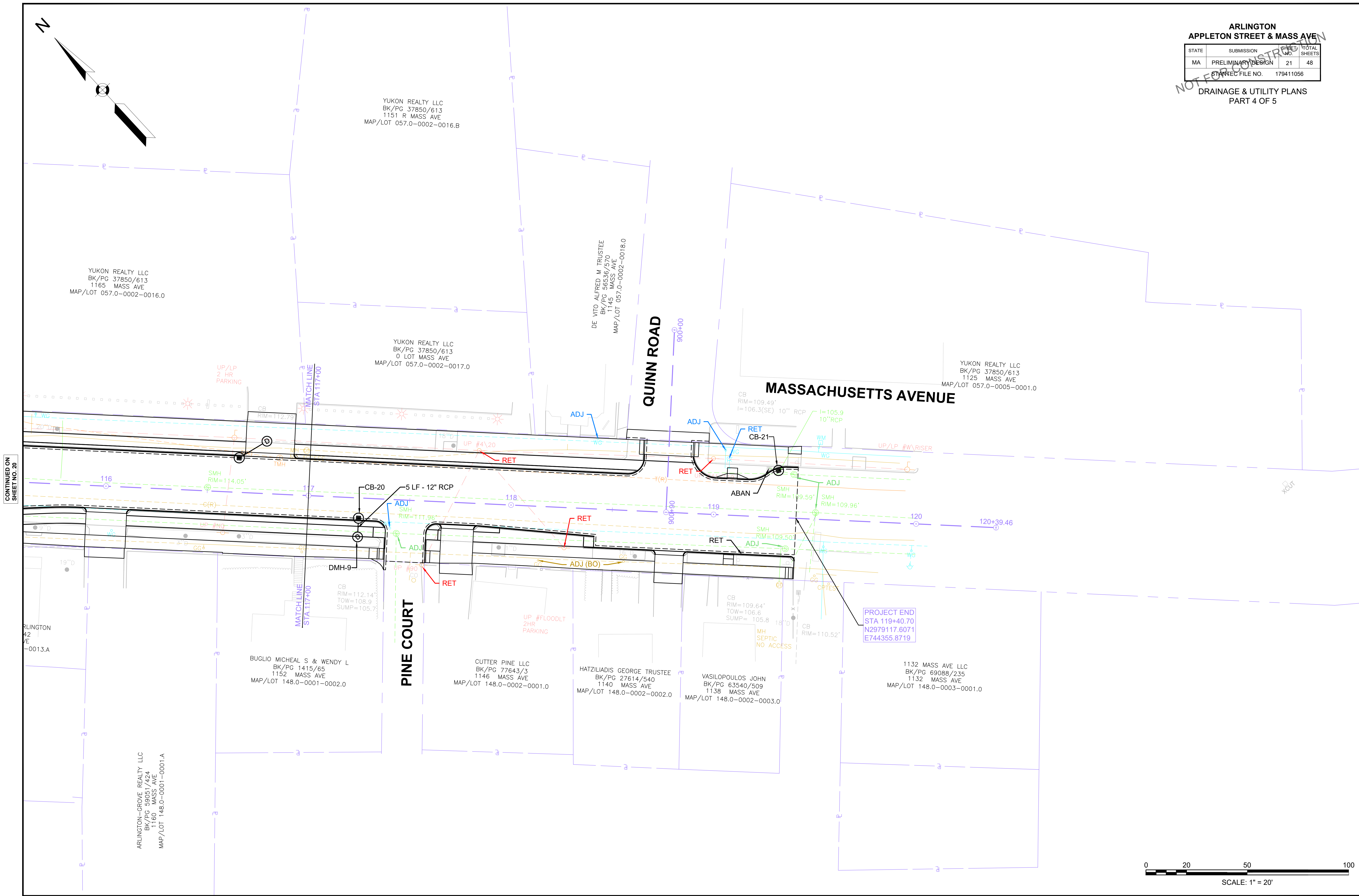




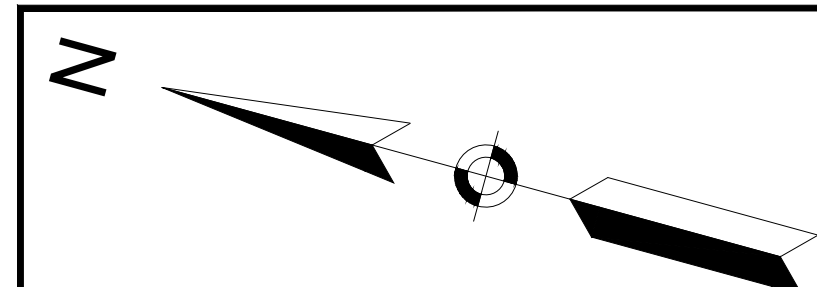
ARLINGTON			
APPLETON STREET & MASS AVE			
STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	21	48
STANTEC FILE NO.		179411056	

DRAINAGE & UTILITY PLANS  
PART 4 OF 5

APPLETON ST DRAIN UTILITY PLANS DWG  
Plotted on 22-Dec-2023 6:15 PM







STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	22	48
STANTEC FILE NO.		179411056	

DRAINAGE & UTILITY PLANS  
PART 5 OF 5

YUKON REALTY LLC  
BK/PG 37850/613  
1165 MASS AVE  
MAP/LOT 057.0-0002-0016.0

**FOREST STREET**

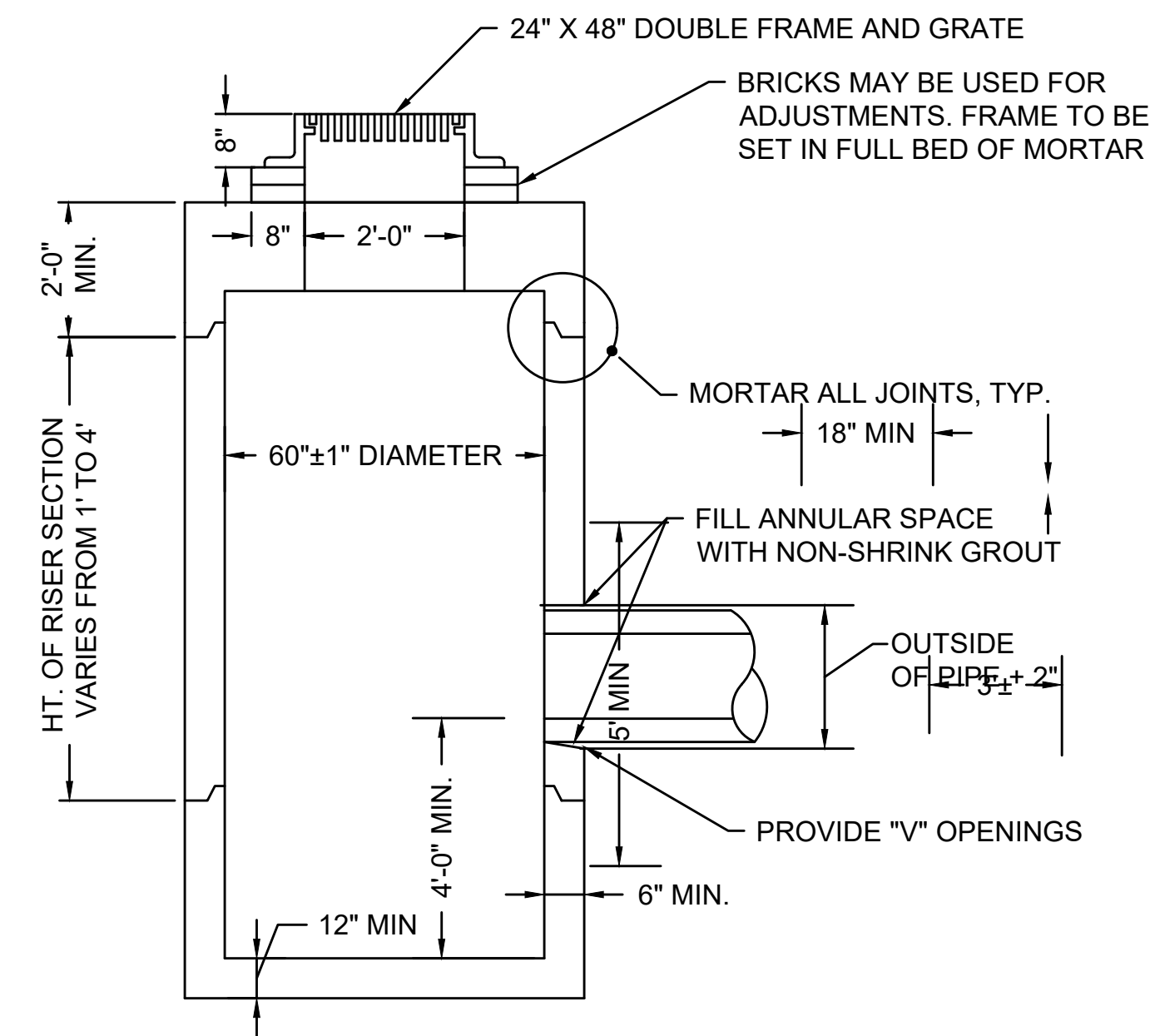
BAURTON STREET

CONTINUED ON  
SHEET NO. 21

CONTINUED ON  
SHEET NO. 23

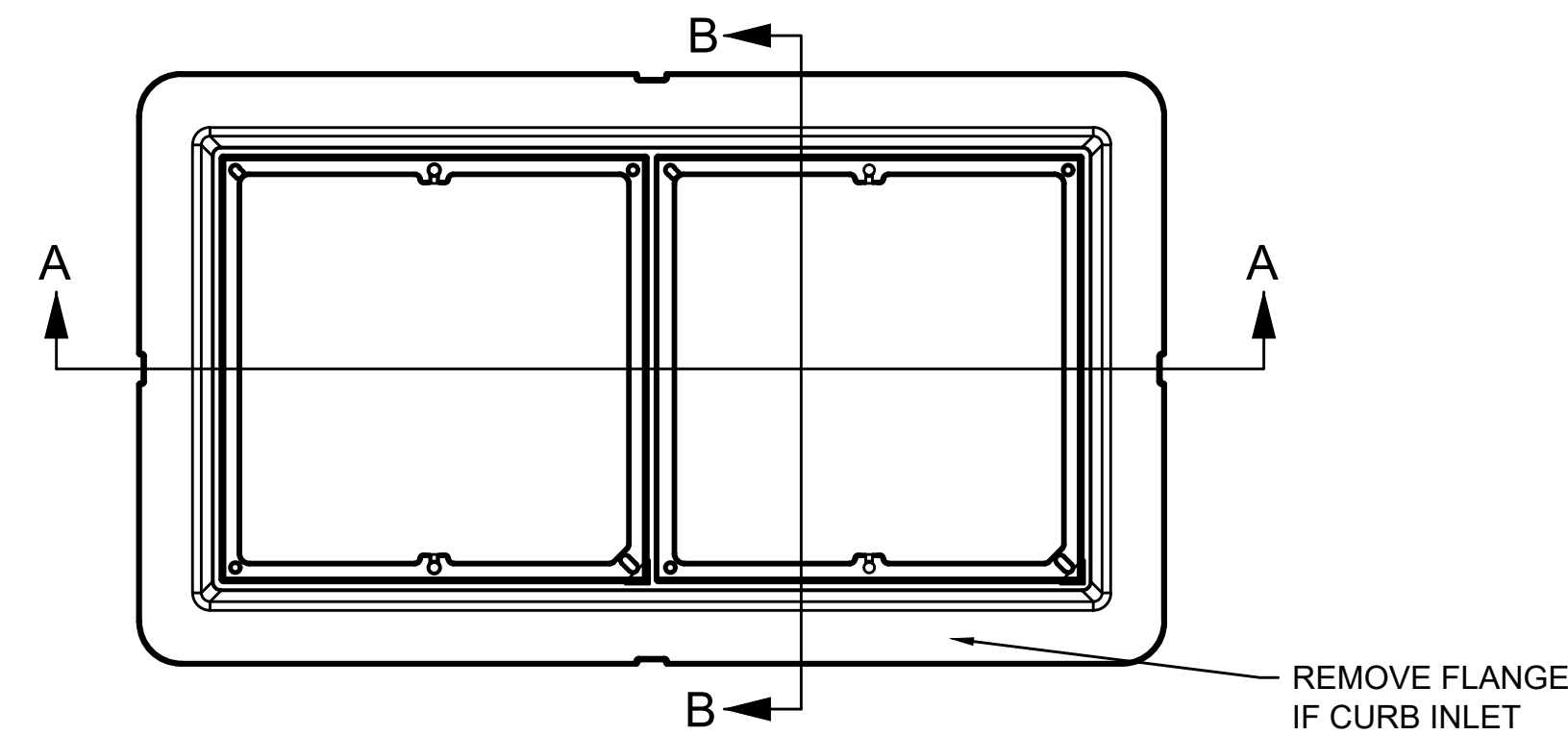
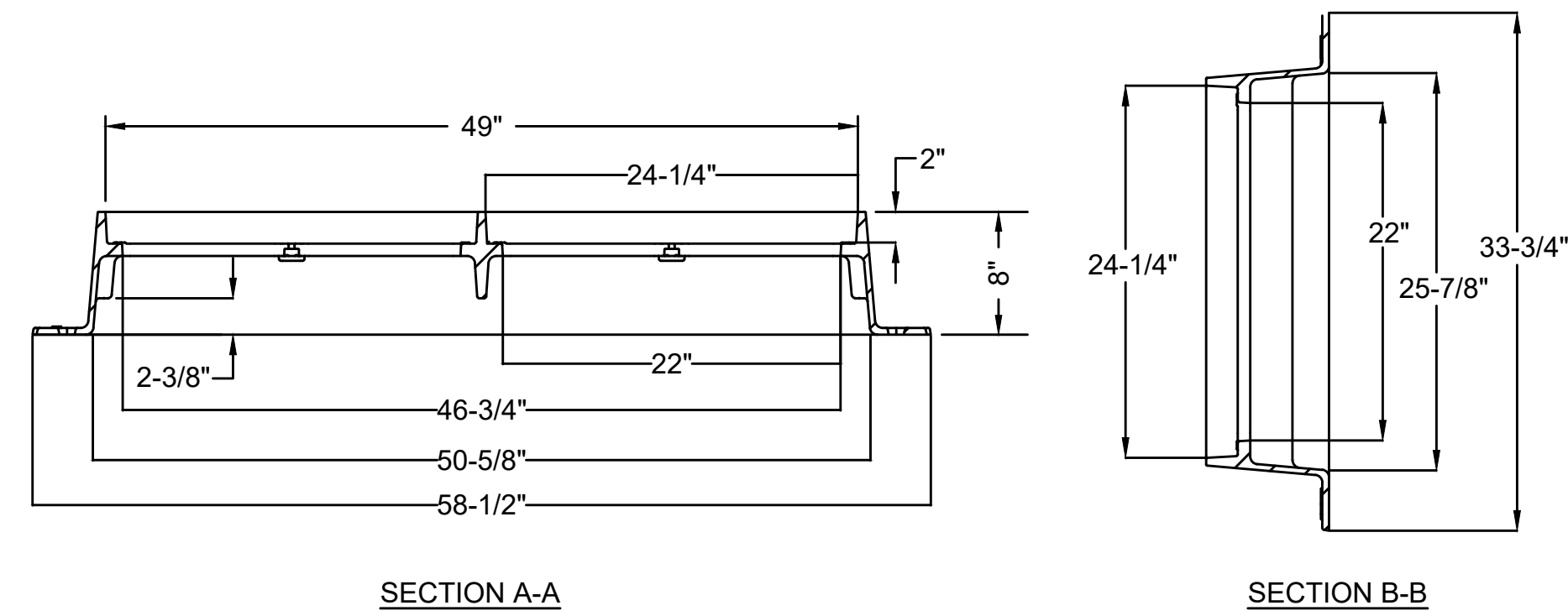
APPLETON ST DRAIN UTILITY PLANS.DWG      Plotted on 22-Dec-2023 6:16 PM





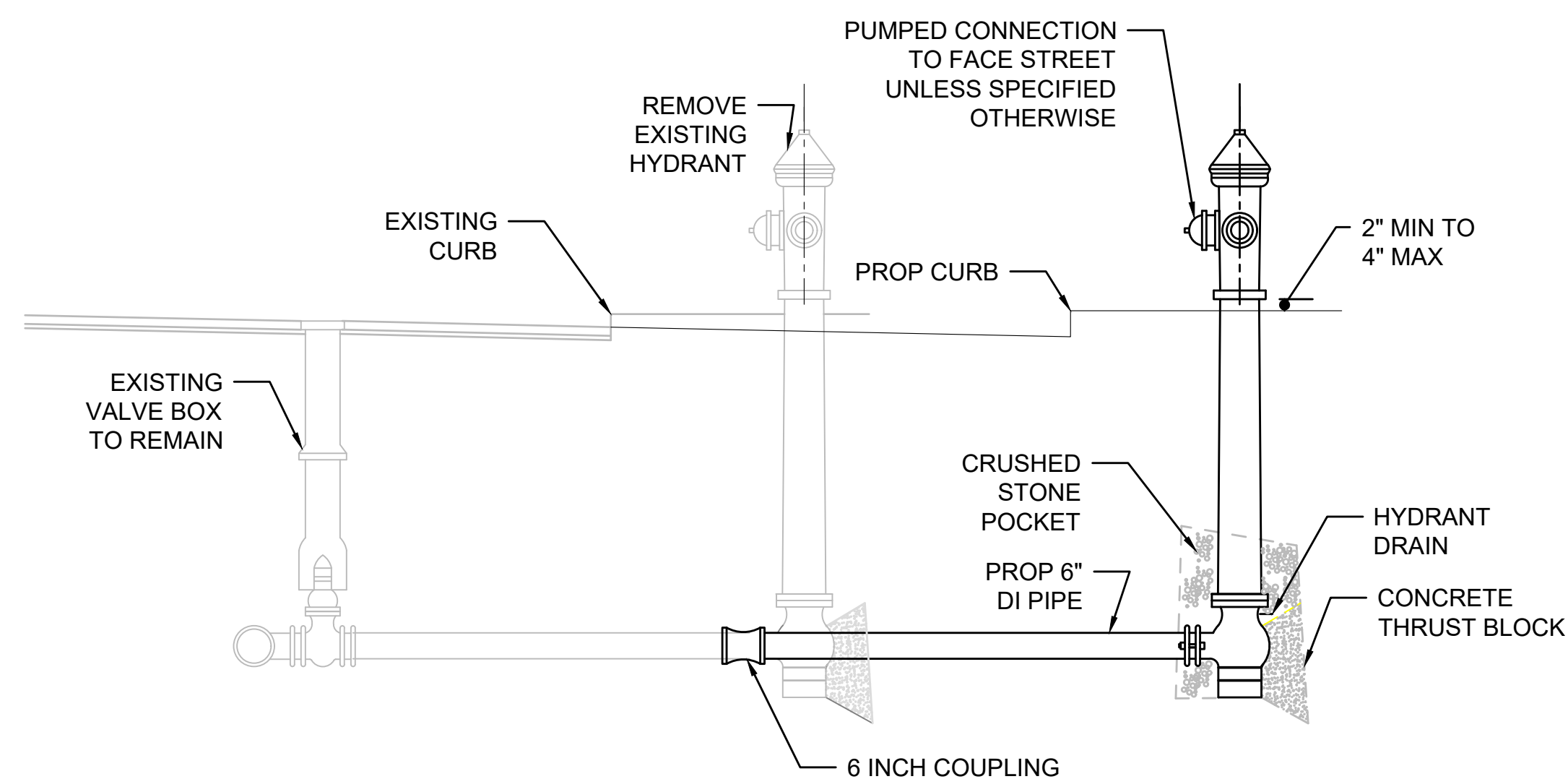
- NOTE:
1. MIN 0.12 SQ. IN STEEL PER VERTICAL FOOT, PLACED ACCORDING TO AASHTO DESIGNATION M199, TYPICAL ALL SIDES
  2. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING
  3. ALL GRATES SHALL BE ADA COMPLIANT.

SPECIAL CATCH BASIN - DOUBLE GRATE  
NOT TO SCALE



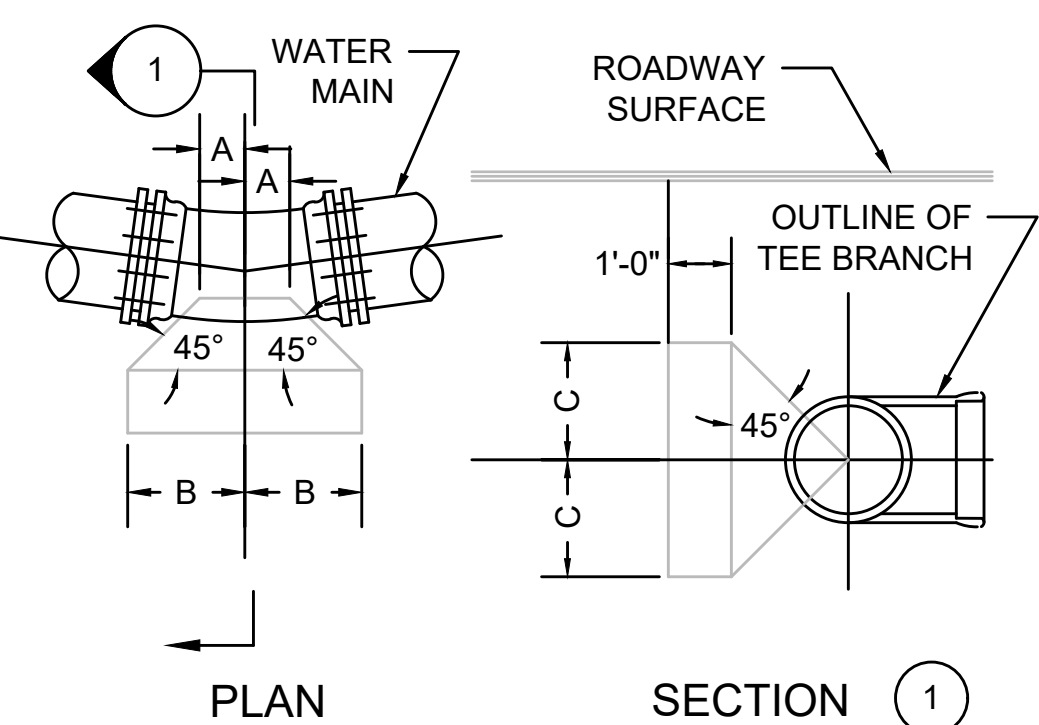
NOTE: DOUBLE FRAME AND GRATE SHALL BE DESIGNED FOR HS-20 LOADING

DOUBLE FRAME  
NOT TO SCALE



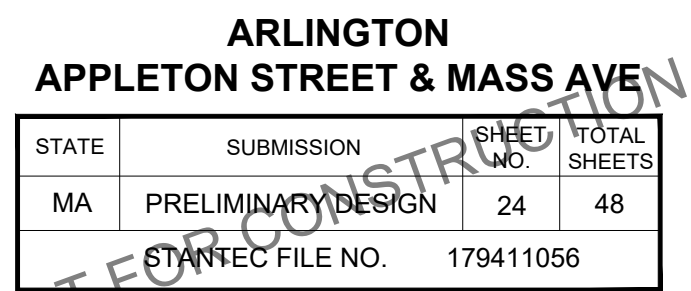
### FIRE HYDRANT AT EXISTING CONNECTION

HORIZONTAL THRUST BLOCK SCHEDULE			
TABLE OF DIMENSIONS IN INCHES			
	<u>A</u>	<u>B</u>	<u>C</u>
6" BEND			
1/32, 1/16	6	10	10
1/8	6	14	14
1/4	9	19	19
10" BEND			
1/32, 1/16	6	14	14
1/8	6	20	20
1/4	9	27	27
12" BEND			
1/32, 1/16	6	13	13
1/8	6	18	18
1/4	9	26	26
20" BEND			
1/32, 1/16	12	22	22
1/8	12	32	32
1/4	12	42	42
PLUG, TEE (BRANCH)			
6"	6	15	15
8"	9	16	16
12"	9	23	23
16"	12	30	27
20"	12	36	36

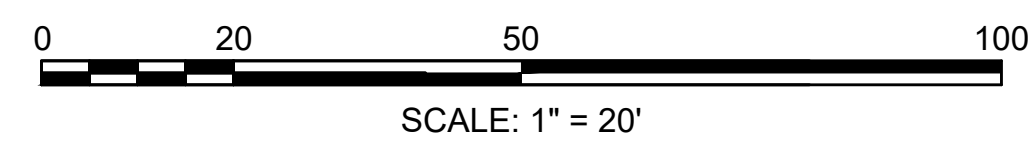


- NOTES:
1. REFER TO SPECIFICATIONS FOR MATERIAL REQUIREMENTS
  2. SUBJECT TO FIELD MODIFICATION BY ENGINEER

**THRUST BLOCK DETAIL**  
NOT TO SCALE



CONTINUED  
ON SHEET 2



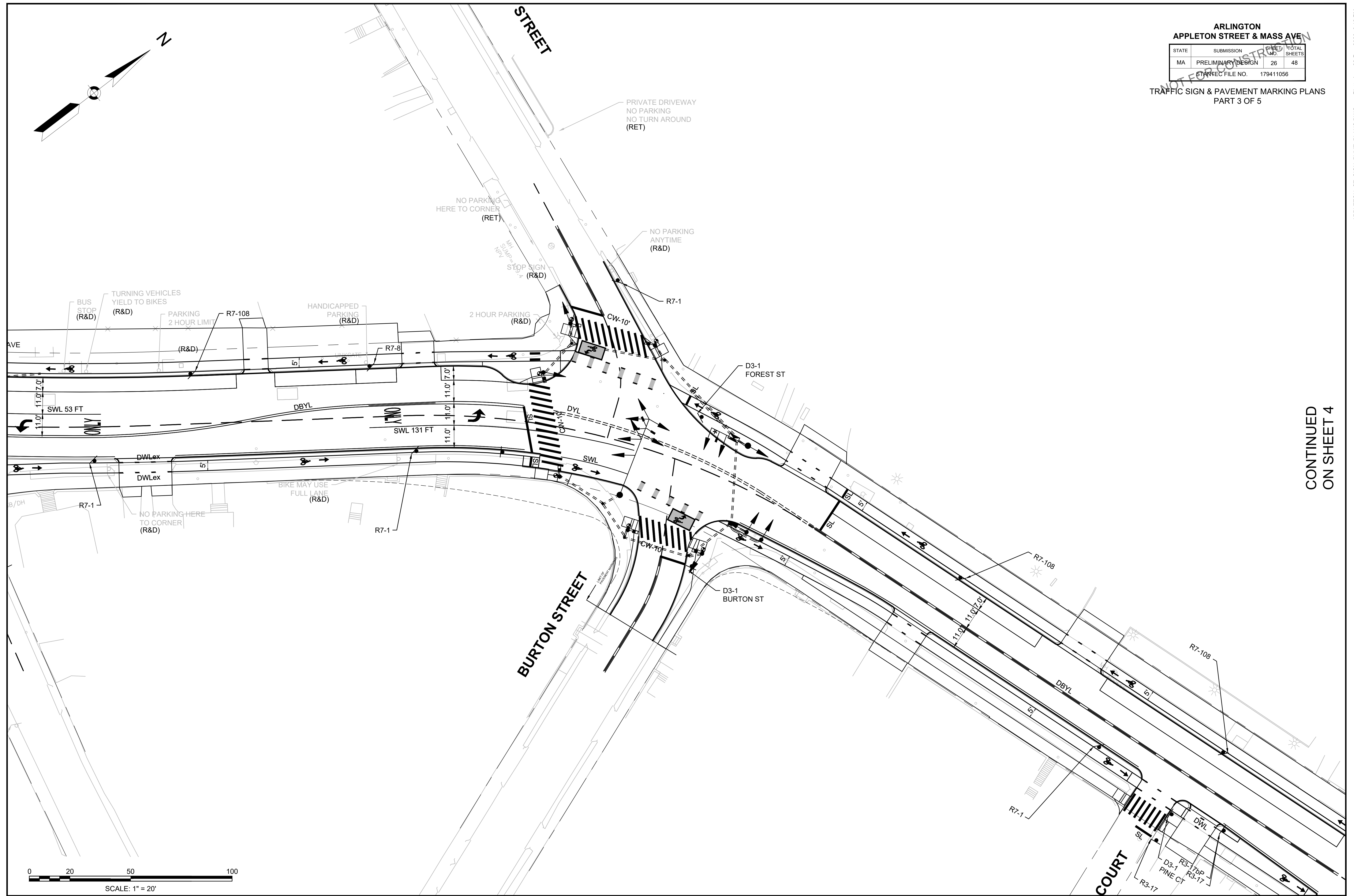




ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	26	48
STARTED FILE NO.		179411056	

TRAFFIC SIGN & PAVEMENT MARKING PLANS  
PART 3 OF 5

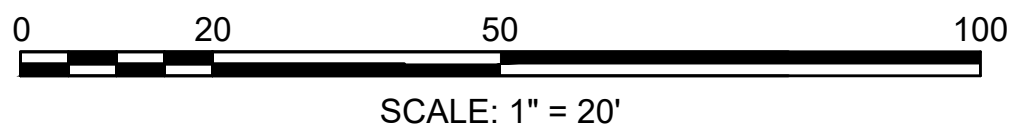
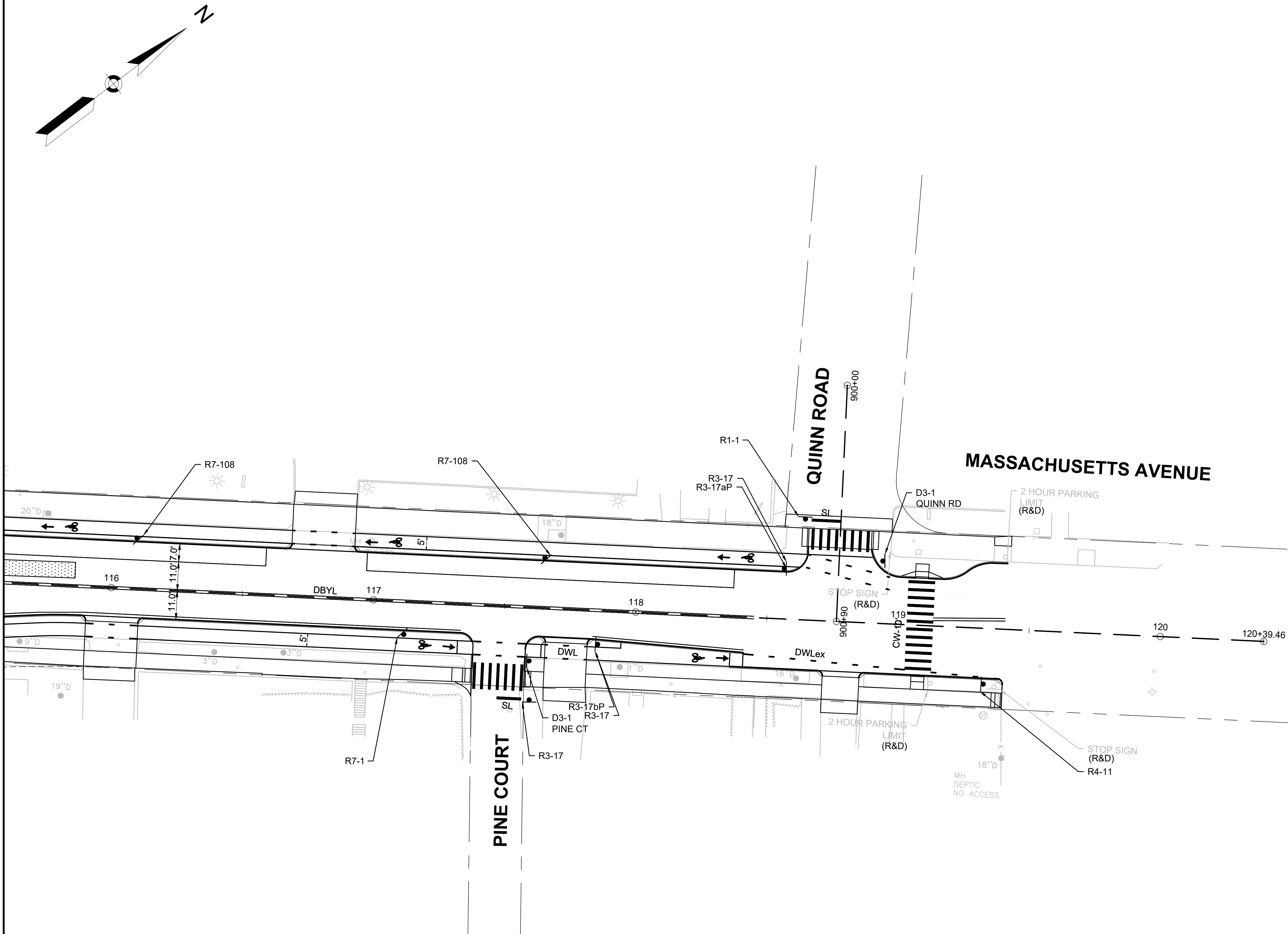


CONTINUED  
ON SHEET 4



ARLINGTON APPLETON STREET & MASS AVE			
STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	27	48
STARTED FILE NO.		179411056	

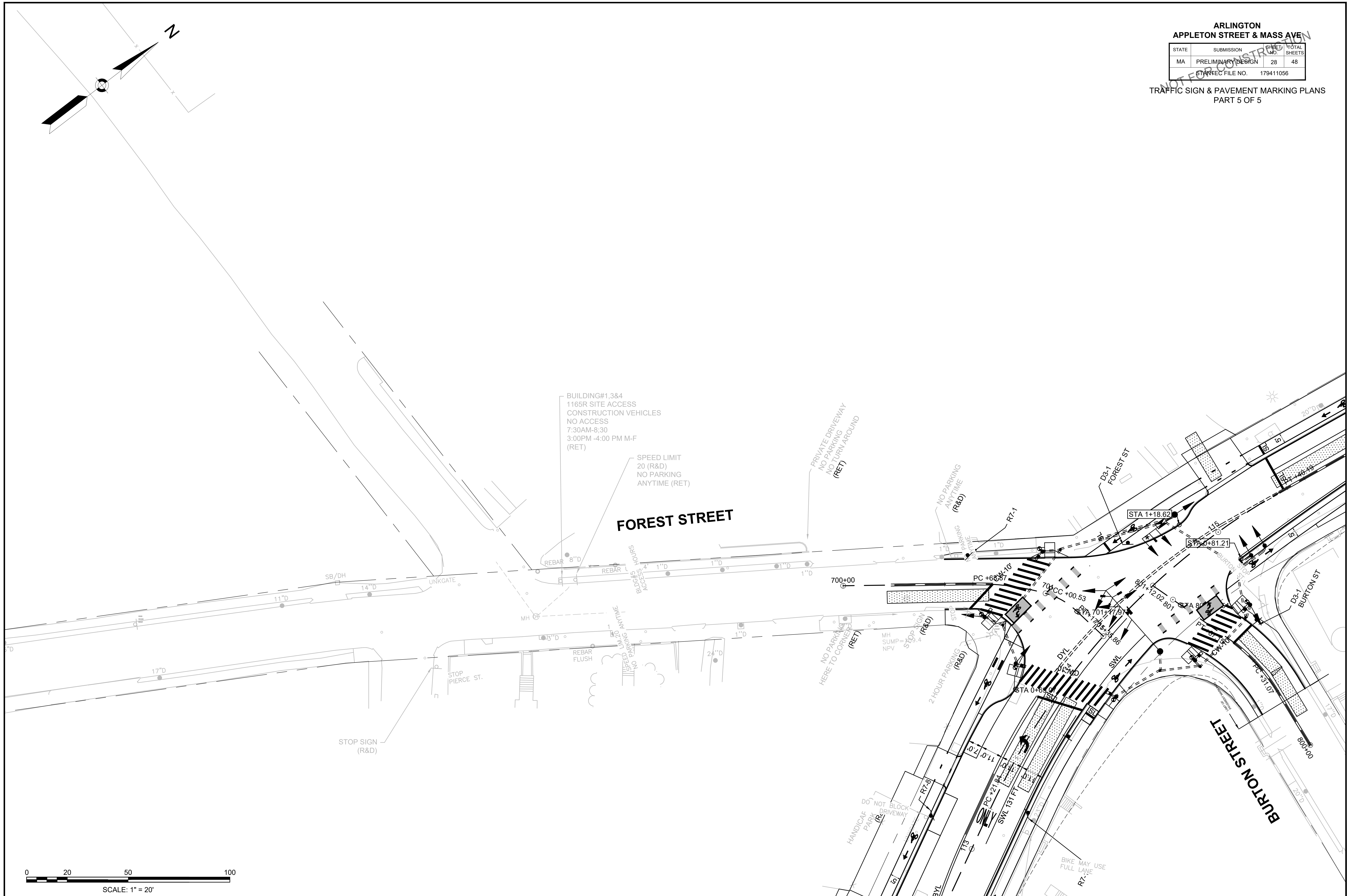
TRAFFIC SIGN & PAVEMENT MARKING PLANS  
PART 4 OF 5



ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	28	48
START/EC FILE NO.		179411056	

TRAFFIC SIGN & PAVEMENT MARKING PLANS  
PART 5 OF 5









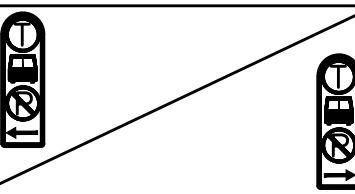





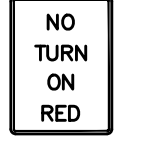
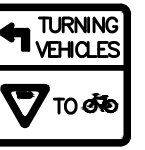


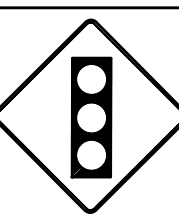



TRAFFIC SIGN SUMMARY

ARLINGTON  
APPLETON STREET & MASS AVE



STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	29	48
STARTED FILE NO.		179411056	

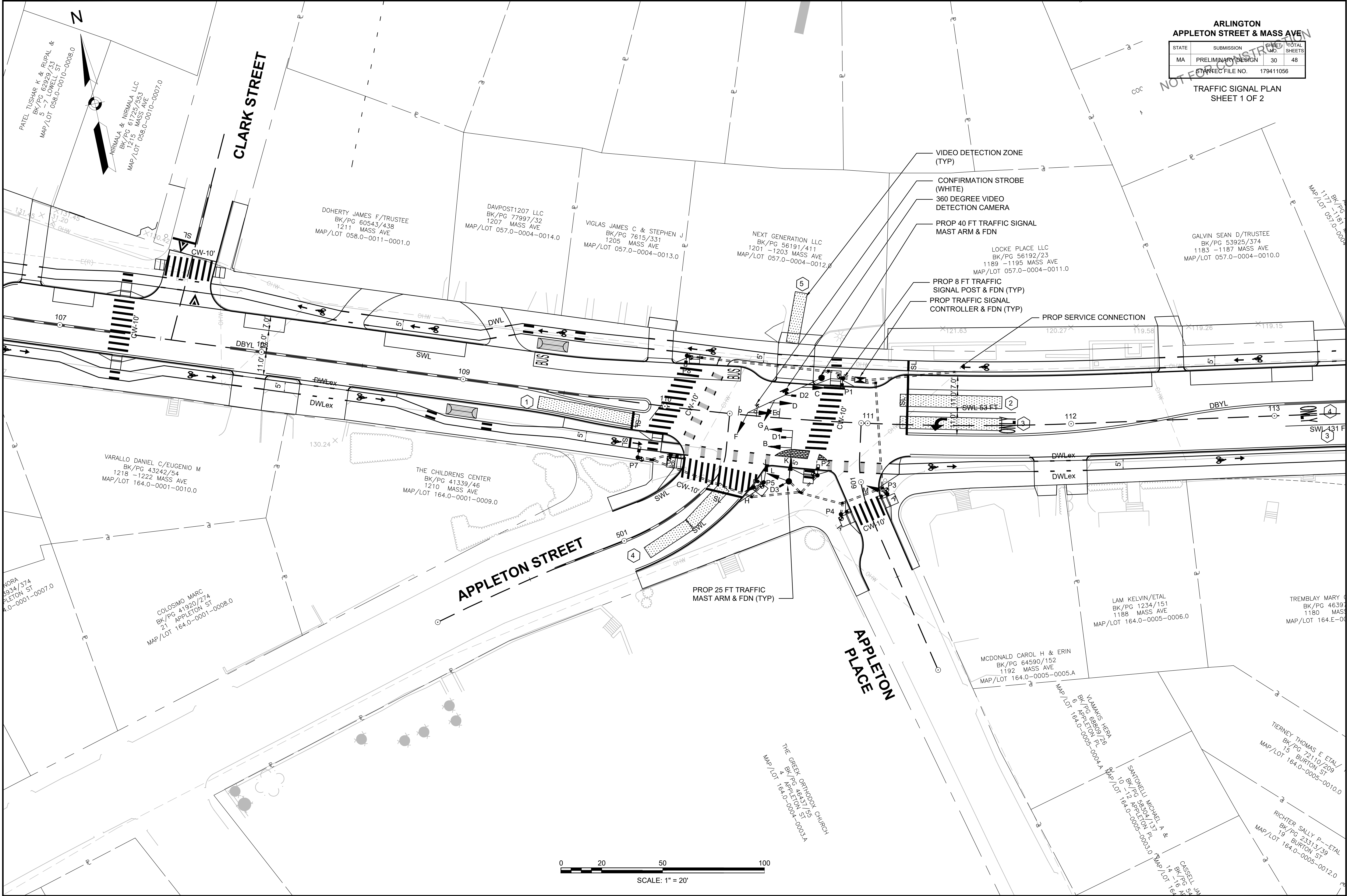
TRAFFIC SIGN SUMMARY  
PART 1 OF 1

IDENTIFIC ATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS			NUMBER OF SIGNS REQ'D	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (SF)	AREA (SF)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK GROUND	LEGEND	BORDER			
R1-1	30"	30"		SEE CURRENT MUTCD	SEE CURRENT MUTCD	SEE CURRENT MUTCD	10	RED	WHITE	WHITE	1 P5 7	6.25	62.50
R3-4	24"	24"					4	WHITE	BLACK/ RED	BLACK	1 P5,2 MNT.BW.R4-7	4.00	16.00
R3-7L	30"	30"					?	WHITE	BLACK	BLACK	1 P5 2	6.25	#####
R3-7R	30"	30"					?	WHITE	BLACK	BLACK		6.25	#####
R3-8 (L-T)	30"	30"					?	WHITE	BLACK	BLACK		6.25	#####
R3-8 (LT-R)	30"	30"					?	WHITE	BLACK	BLACK		6.25	#####
R7-1R	12"	18"					2	WHITE	RED/ BLACK	RED		1.50	3.00
R7-1	12"	18"					?	WHITE	RED	RED	1 P5 2	1.50	####
R7-1L	12"	18"					?	WHITE	RED	RED		1.50	####
R7-108a	12"	18"					11	WHITE	GREEN	GREEN	1 P5 1	1.50	16.50
R7-108b	12"	18"					2	WHITE	GREEN	GREEN	1 P5 1	1.50	3.00
R7-11	12"	18"					2	WHITE	RED	RED		1.50	3.00
R10-11a	24"	30"					9	WHITE	BLACK	BLACK		5.00	45.00
R10-15b	30"	36"					4						
S1-1	12"	18"					2	WHITE	RED	RED		1.50	3.00
W1-3L	18"	24"					3	YELLOW	BLACK	-		3.00	9.00
W3-3	36"	36"					1	YELLOW	BLACK	BLACK	1 P5 14 MNT. 4 ON EX LP	9.00	9.00
W16-9P	24"	12"					1	YELLOW	BLACK	BLACK	1 P5 5 MNT. 2 W. RT-108a	2.00	2.00

NOTES:

- PBS-PRINT BOTH SIDES.
- FLOUR. - FLOURESCENT
- THE MINIMUM MOUNTING HEIGHT OF POST-MOUNTED SIGNS MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB OR SIDEWALK OR TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY SHALL BE 7 FEET UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- R7-SERIES SIGNS SHALL BE MOUNTED AT AN ANGLE OF APPROXIMATELY 45 DEGREES.
- R7-107 SIGNS ARE TO BE PROVIDED BY THE MBTA. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING. THE CONTRACTOR SHALL PROVIDE MBTA WITH 8 WEEKS NOTICE PRIOR TO INSTALLATION. ALL SIGN POSTS SHALL BE INSTALLED 18" (12" MIN) FROM THE FACE OF CURB OR EDGE OF ROADWAY. FRONT OR HEADER SIGN FACE SHALL BE SET AT A 90 DEGREE ANGLE (PERPENDICULAR) TO THE CURB, FACING ONCOMING TRAFFIC. REAR SIGNS SHALL BE SET AT A 60 DEGREE ANGLE TO THE CURB.

IDENTIFIC ATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS			NUMBER OF SIGNS REQ'D	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (SF)	AREA (SF)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK GROUND	LEGEND	BORDER			
W16-7pL	24"	12"		↓	↓	↓	18	GREEN (FLOUR.)	BLACK	BLACK	MNT. 5 W. W11-15 MNT. 10 W. W11-2 MNT. 2 ON EX LP MNT. 1 ON MAST ARM	2.00	36.00
W16-7pR	24"	12"		↓	↓	↓	1	GREEN (FLOUR.)	BLACK	BLACK	MNT. 13 W. W11-2 MNT. 4 W. W11-15 MNT. 1 ON EX LP MNT. 3 ON MA POLE	2.00	2.00



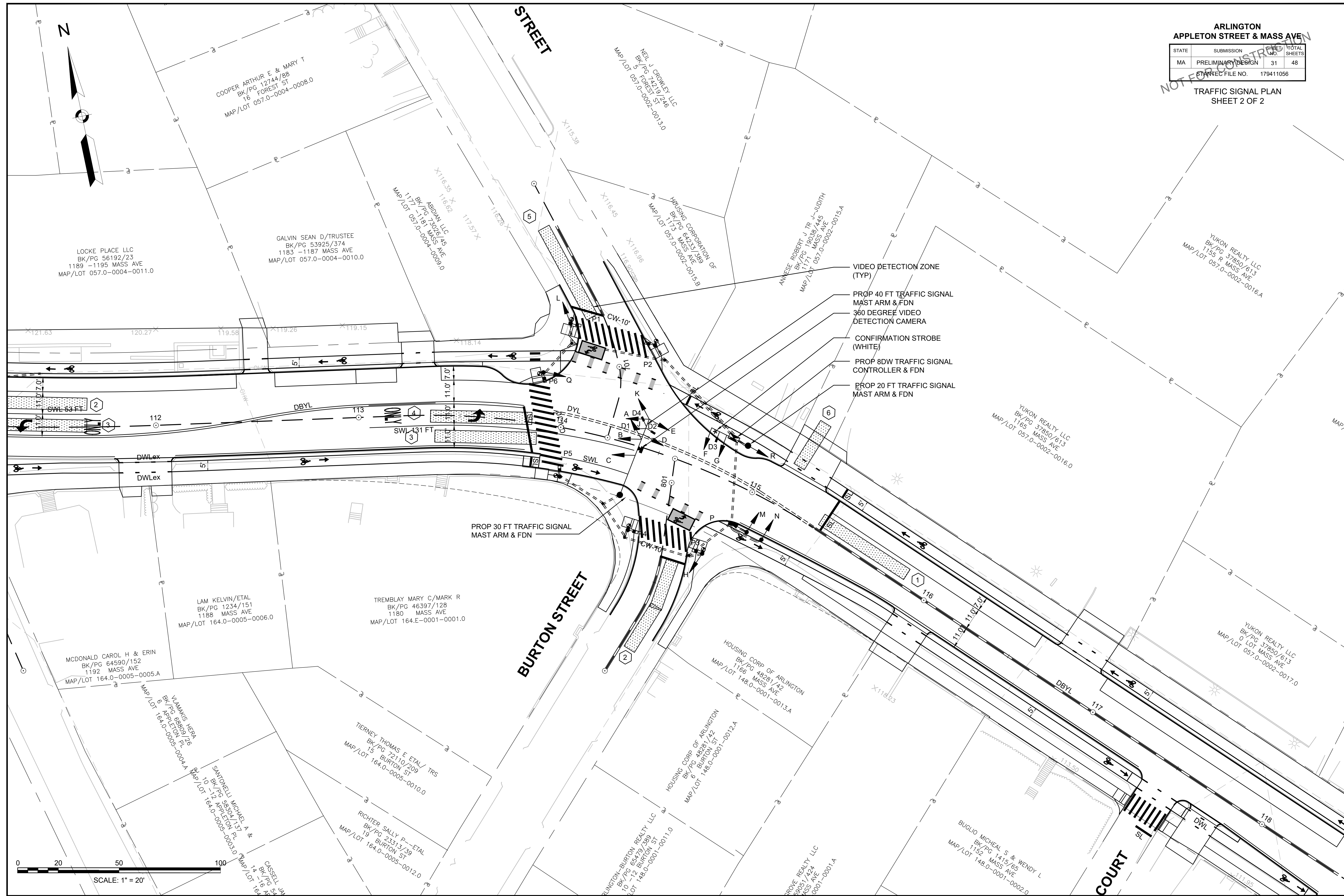








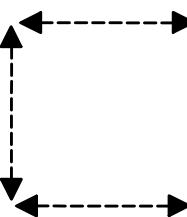
ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	31	48

STARTED FILE NO. 179411056

TRAFFIC SIGNAL PLAN  
SHEET 2 OF 2



SEQUENCE AND TIMING FOR FULL ACTUATED TRAFFIC SIGNAL CONTROL																																		
									NOT USED						NOT USED						NOT USED									NOT USED			OUTSIDE OF ZONE	
			Ø1			Ø2			Ø3			Ø4			Ø5			Ø6			Ø7			Ø8			Ø9			Ø10				
STREET	DIR	HOUSING	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL		
MASS. AVE	EB	A, B, L, M	R	R	R	R	G	Y	R			R	R	R				R	R	R				R	R	R	R	R	R	R			FY	
MASS. AVE	WB L	E	GL	YL	RL	RL	RL	RL				RL	RL	RL				RL	RL	RL				RL	RL	RL	RL	RL	RL				FRL	
MASS. AVE	WB	C, D	R	R	R	R	R	R				R	R	R				G	Y	R				R	R	R	R	R	R	R			FY	
APPLETON ST	NB	F, G, H	R	R	R	R	R	R				R	R	R				R	R	R				G	Y	R	R	R	R	R			FR	
DRIVEWAY	SB	J, K	R	R	R	R	R	R				G	Y	R				R	R	R				R	R	R	R	R	R	R			FR	
PEDESTRIAN		P1-P6	DW	DW	DW	DW	DW	DW				DW	DW	DW				DW	DW	DW							W	FDW	DW				OUT	
INTERVALS (IN SECONDS)	MINIMUM GREEN		-				-					-							-						-									
	EXTENSION INTERVAL		-				-					-							-															
	MAXIMUM I		-				-					-							-															
	MAXIMUM II		-				-					-							-															
	CLEARANCE INTERVAL			-	-		-	-					-	-				-	-															
	BIKE (G/Y/R)																													-				
	"WALK" INTERVAL																																	
	PED CLEARANCE INTERVAL																											-	-					
DETECTOR MEMORY			NON-LOCK			NON-LOCK						NON-LOCK						NON-LOCK									LOCK (PED)			-				
RECALL SWITCH			OFF			SOFT						OFF						SOFT									OFF			-				

TECHNICAL NOTES:

- ANY PHASE NOT CALLED WILL BE SKIPPED. SIGNAL INDICATION WILL NOT CHANGE IF THE ASSIGNED RIGHT OF WAY DOES NOT CHANGE DURING THE NEXT PHASE CALLED.
- THE RIGHT-OF-WAY MAY BE ASSIGNED TO ANY PHASE OR ANY COMBINATION OF NON-CONFLICTING PHASES. IF CALLS EXIST ON ALL PHASES, THE RIGHT-OF-WAY SHALL BE ASSIGNED IN ACCORDANCE WITH THE PREFERENTIAL PHASING SEQUENCE.
- FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28 THROUGH SECTION 4D.31
- MAX 1 = ALL OTHER TIMES  
MAX 2 = M-F 4-6 PM

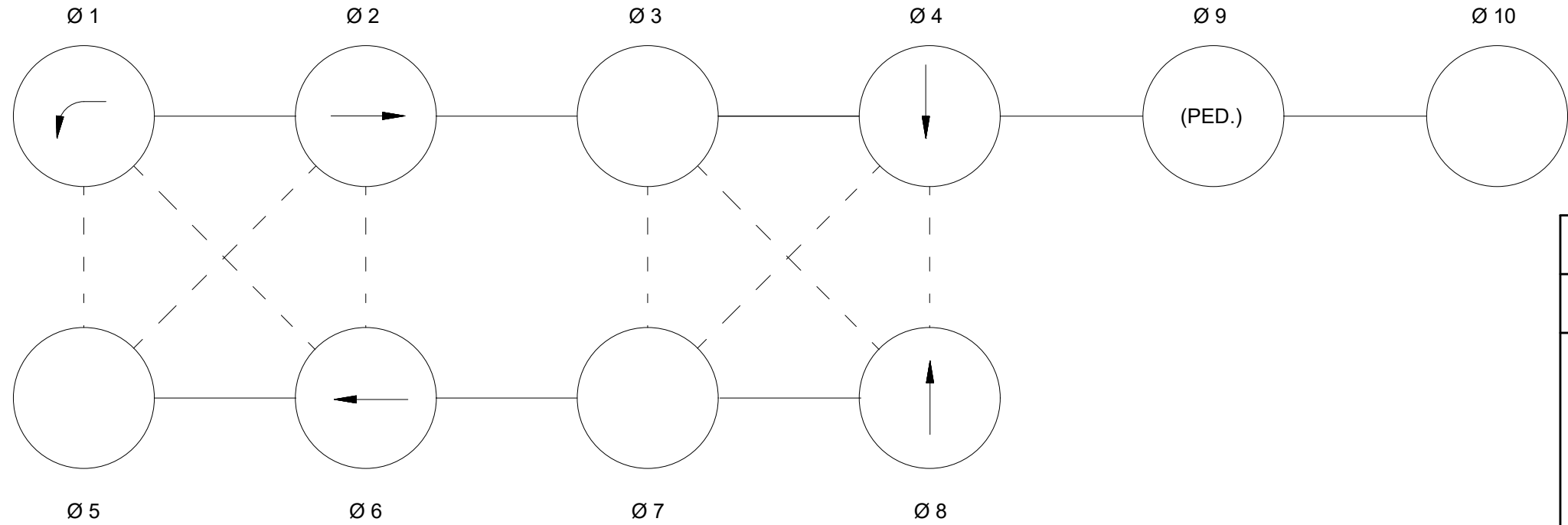
EMERGENCY PRE-EMPTION SCHEDULE

APPROACH	CHANNEL	PRE-EMPTION PHASE	NEXT PHASE CALLED
EASTBOUND	D1	2	2+6
WESTBOUND	D2	1+6	2+6
NORTHBOUND	D3	8	2+6

EMERGENCY VEHICLE PRE-EMPTION OPERATION:

- EMERGENCY VEHICLE PRE-EMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTED MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
- PRE-EMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
- IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAN TO BE SERVICED) AND ADVANCE TO AND/OR HOLD EMERGENCY VEHICLE PRE-EMPTION PHASE UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PRE-EMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
- PRE-EMPTION MINIMUM GREENS SHALL BE 10 SECONDS AND MAXIMUM GREENS SHALL BE 60 SECONDS.
- NORMAL CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TERMINATED BY PRE-EMPTION DEMAND.
- ACTUAL TIMING FOR PRE-EMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY MASSDOT PRIOR TO OPERATION.
- THE CONFIRMATION STROBE SHALL ONLY BE ILLUMINATED WHILE THE PREEMPTED PHASE IS DISPLAYING A GREEN INDICATION.

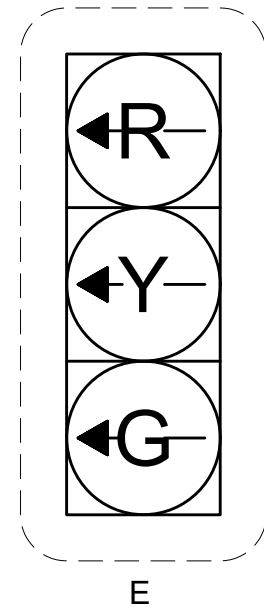
NEMA DUAL RING PHASING



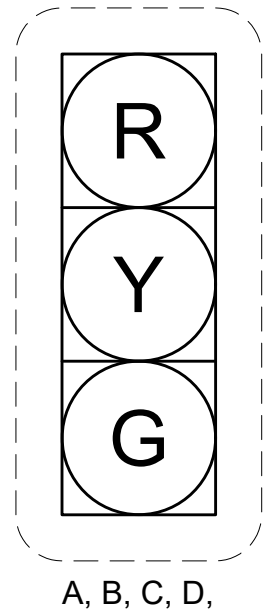
- PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS RETAINED IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

DETECTOR OPERATION								
DETECTION ZONE	ZONE SIZE (FT)	PROCESSOR NO.	CHANNEL NO.	Ø CALLED	Ø EXT.	MODE: A=PULSE B=PRES. C=CALLING	DELAY (SEC)	EXT. (SEC)
1	6X50	1	1	2	2	B	-	-
2	6X50	1	2	6	6	B	-	-
3	6X50	1	3	1	1 & 6	B	-	-
4	2-6X25	1	4	8	8	B	-	-
5	6X25	1	5	4	4	B	-	-
							-	-

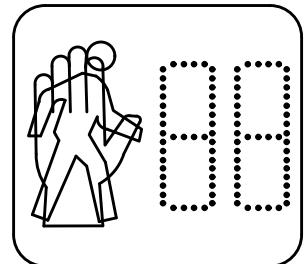
SIGNAL FACES



E



A, B, C, D,  
F, G, H, J, K  
L, M



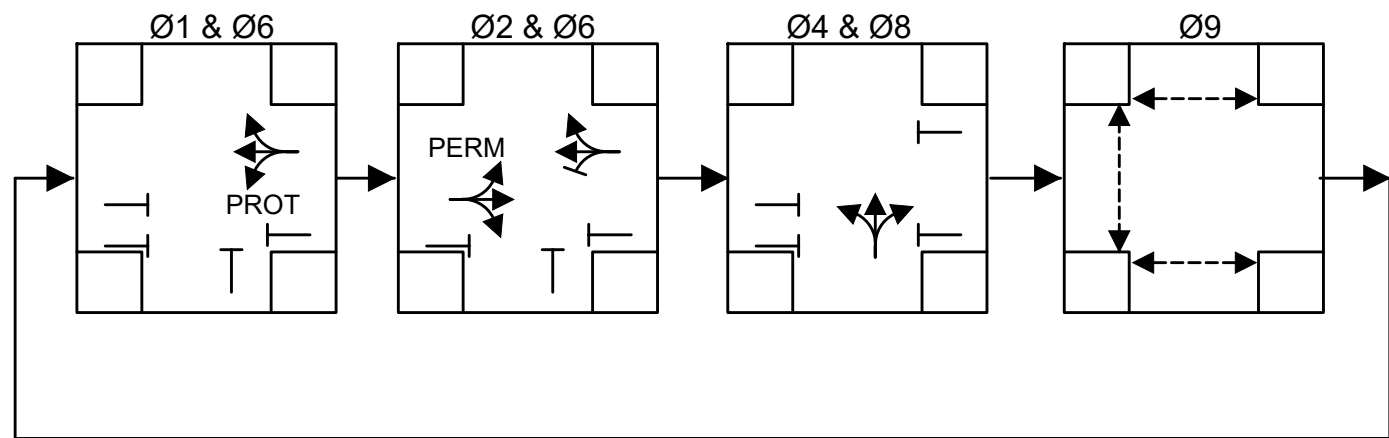
P1,P2,P3,P4,  
P5,P6

16" L.E.D.  
COUNTDOWN

NOTE:

- ALL PROPOSED VEHICLE & BICYCLE INDICATIONS SHALL BE 12" LED AND BE EQUIPPED WITH CAP VISORS.
- ALL PROPOSED VEHICLE & BICYCLE INDICATIONS SHALL BE EQUIPPED WITH 5" NON-LOUVERED BACKPLATES WITH 3" REFLECTORIZED YELLOW BORDER.

PREFERENTIAL PHASING SEQUENCE



→ VEHICLE MOVEMENT










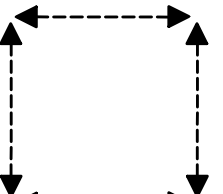


←---→ PEDESTRIAN MOVEMENT - UPON PEDESTRIAN ACTUATION

→ BICYCLE MOVEMENT

MAJOR ITEM LIST		
ITEM	QTY.	DESCRIPTION
816.01	1	TRAFFIC SIGNAL CONTROLLER (TS-2, TYPE 1) TYPE 8DW W/ 8DW CABINET & CEM CONC FOUNDATION AND PAD
	1	40 FT MAST ARM (STEEL) INCLUDE BASE AND CEM CONCRETE FOUNDATION
	1	25 FT MAST ARM (STEEL) INCLUDE BASE AND CEM CONCRETE FOUNDATION
	1	10 FT TRAFFIC SIGNAL POST, BASE & CEM CONC FOUNDATION
	6	8 FT TRAFFIC SIGNAL POST, BASE & CEM CONC FOUNDATION
	6	1-WAY, 3 SECTION SIGNAL HEAD, 12" L.E.D. LENS (W/ VISORS)
	3	2-WAY, 3 SECTION SIGNAL HEAD, 12" L.E.D. LENS (W/ VISORS)
	12	5" NON-LOUVERED BACKPLATES WITH 3" RETROREFLECTIVE (YELLOW) BORDER
	8	PEDESTRIAN SIGNAL HEAD (L.E.D.) WITH COUNTDOWN DISPLAY
	8	ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON ASSEMBLY (INCL. SIGN & SADDLE)
	1	360° VIDEO DETECTION SYSTEM
	1	SERVICE CONNECTION (OVERHEAD - ELECTRIC)
	1	PRE-EMPTION PHASE SELECTOR (4 CHANNEL)
	1	EMERGENCY PRE-EMPTION CONFIRMATION STROBE
811.22	3	EMERGENCY PRE-EMPTION RECEIVERS (SINGLE CHANNEL)
	1	REMOVE AND STACK/DISCARD EXISTING TRAFFIC SIGNAL EQUIPMENT
811.31	2	13"x24" HANDHOLE -SD2.022
811.31	6	12"x12" PULL BOX -SD2.031
804.3	400	FT - 3 INCH ELECTRICAL CONDUIT TYPE NM-PLASTIC - (UL)

PLUS ALL NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIALS AND EQUIPMENT TO COMPLETE THE INSTALLATION.



SEQUENCE AND TIMING FOR FULL ACTUATED TRAFFIC SIGNAL CONTROL																																									
																																	MIRAK DWY						OLUOKA-OLUOKA		
STREET			DIR	HOUSING	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	FRL									
MASS. AVE			EB L	A				RL	RL	RL				RL	RL	RL	GL	YL	RL	RL	RL	RL				RL	RL	RL	RL	RL	RL	RL	RL	RL	FRL						
MASS. AVE			EB	B, C, P				G	Y	R				R	R	R	R	R	R	R	R	R				R	R	R	R	R	R	R	R	R	FY						
MASS. AVE			WB	D, E, Q, R				R	R	R				R	R	R	R	R	R	G	Y	R				R	R	R	R	R	R	R	R	R	FY						
BURTON ST			NB	F, G, H				R	R	R				R	R	R	R	R	R	R	R	R				G	Y	R	R	R	R	R	R	R	FR						
FOREST ST			SB	J, K, L				R	R	R				G	Y	R	R	R	R	R	R	R				R	R	R	R	R	R	R	R	R	FR						
DRIVEWAY			SB	M, N				R	R	R				R	Y	R	R	R	R	R	R	R				R	R	R	R	R	R	G	Y	R	FR						
PEDESTRIAN				P1-P8				DW	DW	DW				DW	DW	DW				DW	DW	DW				DW	DW	DW	W	FDW	DW	DW	DW	DW	OUT						
INTERVALS (IN SECONDS)	MINIMUM GREEN						-						-				-							-					-												
	EXTENSION INTERVAL						-						-				-							-					-												
	MAXIMUM I						-						-				-							-					-												
	MAXIMUM II						-						-				-							-					-												
	CLEARANCE INTERVAL								-	-						-	-				-	-					-	-				-	-								
	BIKE (G/Y/R)																																								
	"WALK" INTERVAL																												-												
	PED CLEARANCE INTERVAL																													-	-										
DETECTOR MEMORY						NON-LOCK						NON-LOCK			NON-LOCK			NON-LOCK						NON-LOCK			LOCK (PED)			NON-LOCK											
RECALL SWITCH						SOFT						OFF			OFF			SOFT						OFF			OFF			OFF											

TECHNICAL NOTES:

1.

ANY PHASE NOT CALLED WILL BE SKIPPED. SIGNAL INDICATION WILL NOT CHANGE IF THE ASSIGNED RIGHT OF WAY DOES NOT CHANGE DURING THE NEXT PHASE CALLED.
2.

THE RIGHT-OF-WAY MAY BE ASSIGNED TO ANY PHASE OR ANY COMBINATION OF NON-CONFLICTING PHASES. IF CALLS EXIST ON ALL PHASES, THE RIGHT-OF-WAY SHALL BE ASSIGNED IN ACCORDANCE WITH THE PREFERENTIAL PHASING SEQUENCE.
3.

FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28 THROUGH SECTION 4D.31
4.

MAX 1 = ALL OTHER TIMES  
MAX 2 = M-F 4-6 PM

EMERGENCY PRE-EMPTION SCHEDULE

APPROACH	CHANNEL	PRE-EMPTION PHASE	NEXT PHASE CALLED
EASTBOUND	D1	2 + 5	2+6
WESTBOUND	D2	6	2+6
NORTHBOUND	D3	8	2+6
SOUTHBOUND	D4	4	2+6

EMERGENCY VEHICLE PRE-EMPTION OPERATION:

1.

EMERGENCY VEHICLE PRE-EMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTED MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
2.

PRE-EMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
3.

IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAN TO BE SERVICED) AND ADVANCE TO AND/OR HOLD EMERGENCY VEHICLE PRE-EMPTION PHASE UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PRE-EMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
4.

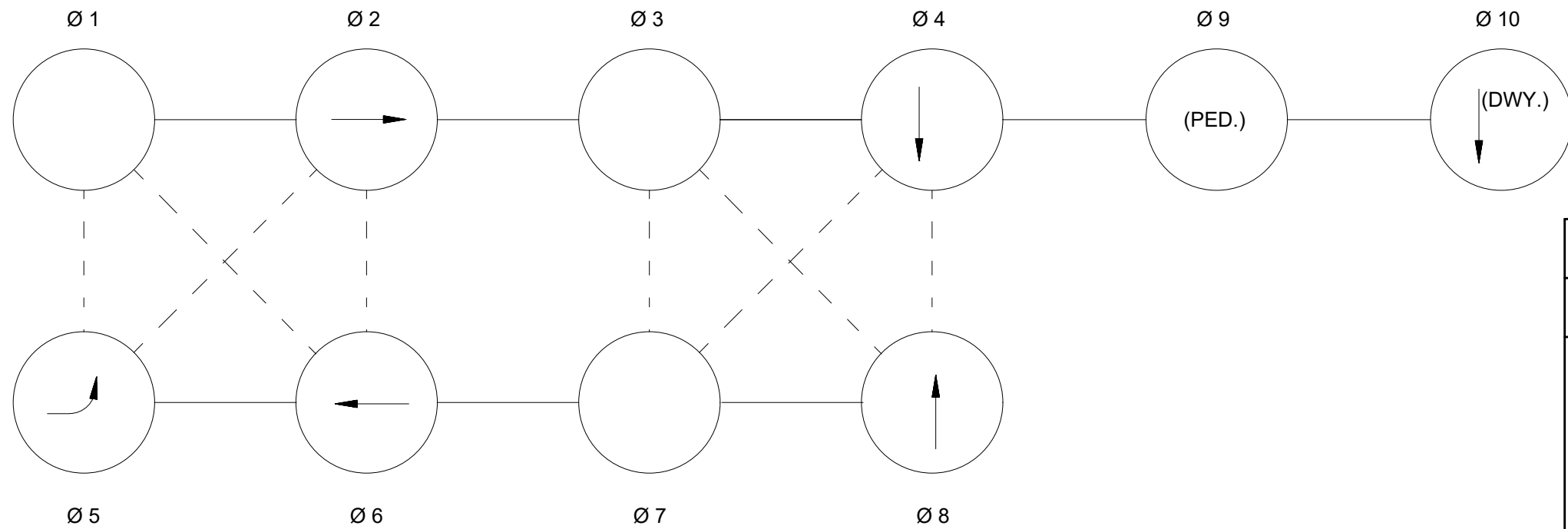
PRE-EMPTION MINIMUM GREENS SHALL BE 10 SECONDS AND MAXIMUM GREENS SHALL BE 60 SECONDS.
5.

NORMAL CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TERMINATED BY PRE-EMPTION DEMAND.
6.

ACTUAL TIMING FOR PRE-EMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY MASSDOT PRIOR TO OPERATION.
7.

THE CONFIRMATION STROBE SHALL ONLY BE ILLUMINATED WHILE THE PREEMPTED PHASE IS DISPLAYING A GREEN INDICATION.

NEMA DUAL RING PHASING



1.

PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
2.

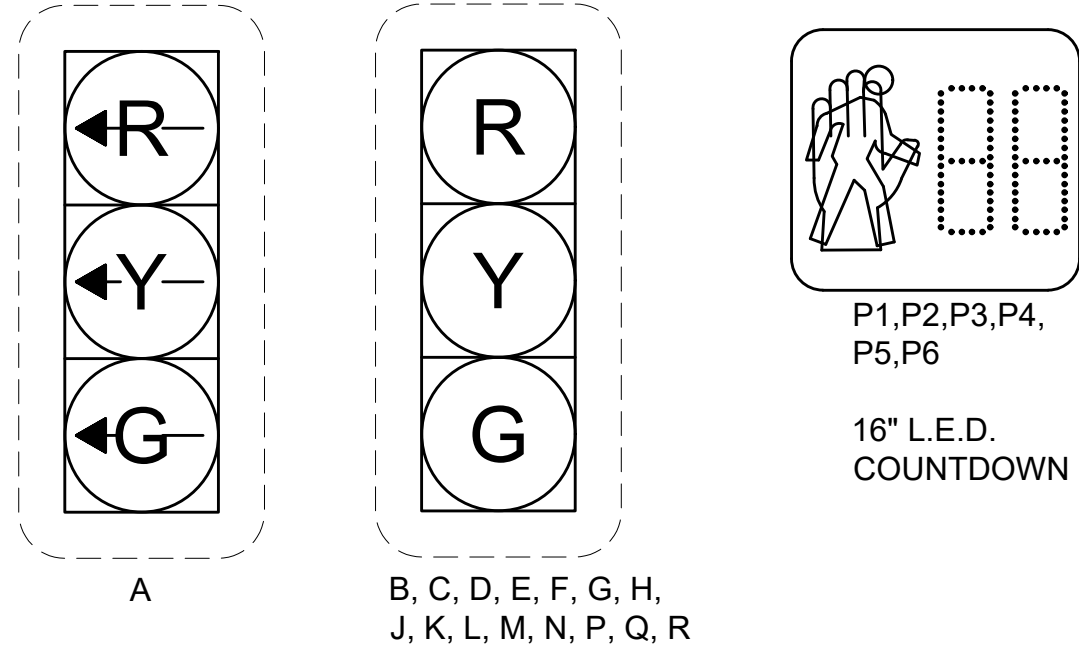
PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
3.

THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
4.

IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS RETAINED IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

DETECTOR OPERATION								
DETECTION ZONE	ZONE SIZE (FT)	PROCESSOR NO.	CHANNEL NO.	Ø CALLED	Ø EXT.	MODE: A=PULSE B=PRES. C=CALLING	DELAY (SEC)	EXT. (SEC)
1	6X50	1	1	6	6	B	-	-
2	2-6X25	1	2	8	8	B	-	-
3	6X50	1	3	2	2	B	-	-
4	6x50	1	4	5	2&5	B	-	-
5	6x50	1	5	4	4	B	-	-
6	6X25	1	6	10	10	B	-	-

SIGNAL FACES



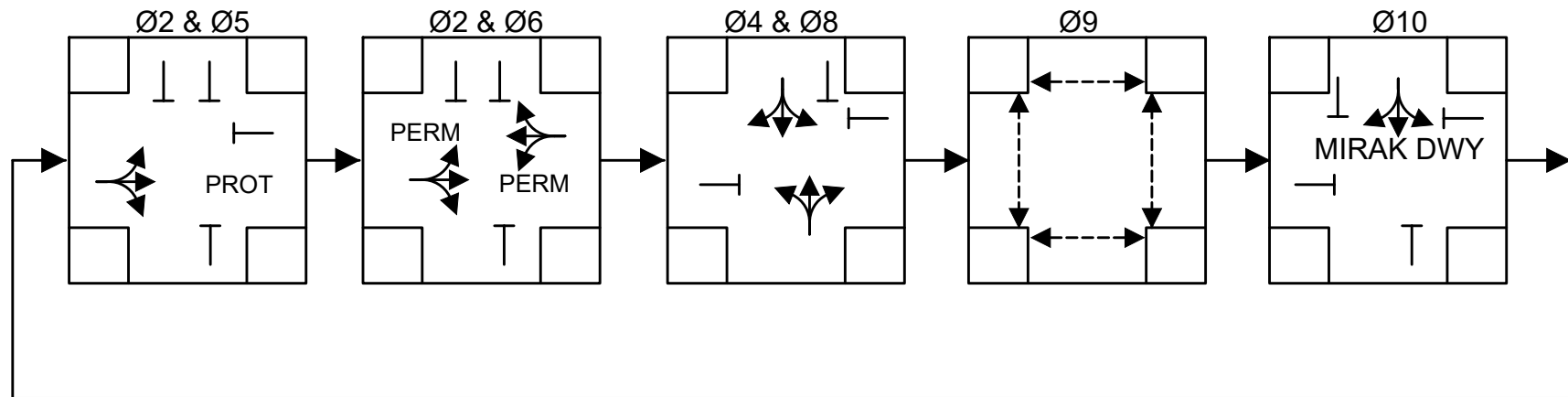
NOTE:

1.

ALL PROPOSED VEHICLE & BICYCLE INDICATIONS SHALL BE 12" LED AND BE EQUIPPED WITH CAP VISORS.
2.

ALL PROPOSED VEHICLE & BICYCLE INDICATIONS SHALL BE EQUIPPED WITH 5" NON-LOUVERED BACKPLATES WITH 3" REFLECTORIZED YELLOW BORDER.

PREFERENTIAL PHASING SEQUENCE



- VEHICLE MOVEMENT
- PEDESTRIAN MOVEMENT - UPON PEDESTRIAN ACTUATION
- BICYCLE MOVEMENT

MAJOR ITEM LIST		
ITEM	QTY.	DESCRIPTION
815.2	1	TRAFFIC SIGNAL CONTROLLER (TS-2, TYPE 1) TYPE 8DW W/ 8DW CABINET & CEM CONC FOUNDATION AND PAD
	1	40 FT MAST ARM (STEEL) INCLUDE BASE AND CEM CONCRETE FOUNDATION
	1	30 FT MAST ARM (STEEL) INCLUDE BASE AND CEM CONCRETE FOUNDATION
	4	10 FT TRAFFIC SIGNAL POST, BASE & CEM CONC FOUNDATION
	4	8 FT TRAFFIC SIGNAL POST, BASE & CEM CONC FOUNDATION
	11	1-WAY, 3 SECTION SIGNAL HEAD, 12" L.E.D. LENS (W/ VISORS)
	1	3-WAY, 3 SECTION SIGNAL HEAD, 12" L.E.D. LENS (W/ VISORS)
	1	2-WAY, 3 SECTION SIGNAL HEAD, 12" L.E.D. LENS (W/ VISORS)
	16	5" NON-LOUVERED BACKPLATES WITH 3" RETROREFLECTIVE (YELLOW) BORDER
	6	PEDESTRIAN SIGNAL HEAD (L.E.D.) WITH COUNTDOWN DISPLAY
	6	ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON ASSEMBLY (INCL. SIGN & SADDLE)
	1	360° VIDEO DETECTION SYSTEM
	1	SERVICE CONNECTION (UNDERGROUND - ELECTRIC)
	1	PRE-EMPTION PHASE SELECTOR (4 CHANNEL)
	1	EMERGENCY PRE-EMPTION CONFIRMATION STROBE
811.22	1	13"x24" HANDHOLE -SD2.022
	5	12"x12" PULL BOX -SD2.031
	400	FT - 3 INCH ELECTRICAL CONDUIT TYPE NM-PLASTIC - (UL)

PLUS ALL NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIALS AND EQUIPMENT TO COMPLETE THE INSTALLATION.



HIGHWAY GUARD DETAILS  
NONE

TRAFFIC SIGNAL CONDUIT  
NONE

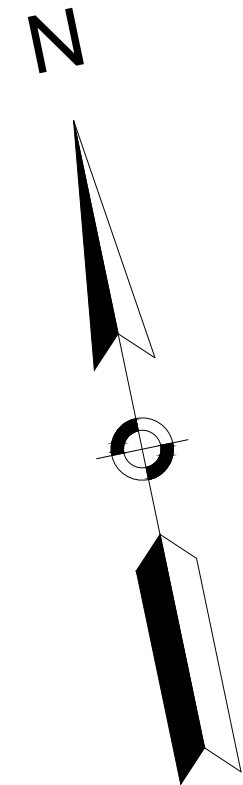
WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
NONE

ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	34	48
START/EC FILE NO.		179411056	

LANDSCAPE PLANS  
PART 1 OF 7



MASSACHUSETTS AVENUE

LOWELL STREET

LOCKE STREET

RICHARDSON AVENUE

PLANTING LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EXISTING TREE TO REMAIN AND BE PROTECTED
- EXISTING TREE TO BE REMOVED / TRANSPLANTED
- BIORETENTION BASIN
- SEEDED LAWN

PLANT SCHEDULE					
QTY	ID	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
2	CK	CLADASTRIS KENTUCKEA	YELLOW WOOD	3.5" - 4" CAL.	
2	HC	HALESIA CAROLINA	CAROLINA SILVERBELL	3.5" - 4" CAL.	

0 20 50 100

SCALE: 1" = 20'

FOR PROFILE SEE SHEET NO. 13 - 14

CONTINUED ON  
SHEET NO. 35

179411056\_BASE.DWG Plotted on 22-Dec-2023 6:19 PM



HIGHWAY GUARD DETAILS  
NONE

TRAFFIC SIGNAL CONDUIT  
NONE

WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
NONE

ARLINGTON APPLETON STREET & MASS AVE			
STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	35	48
STARTED FILE NO.		179411056	

LANDSCAPE PLANS  
PART 2 OF 7

CONTINUED ON  
SHEET NO. 34

CONTINUED ON  
SHEET NO. 36

PLANTING LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EXISTING TREE TO REMAIN AND BE PROTECTED
- EXISTING TREE TO BE REMOVED / TRANSPLANTED
- BIORETENTION BASIN
- SEEDED LAWN

FOR PROFILE SEE SHEET NO. 13 - 14

PLANT SCHEDULE					
QTY	ID	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
1	CK	CLADASTRIS KENTUCKEA	YELLOW WOOD	3.5" - 4" CAL.	
4	AR	ACER RUBRUM 'OCTOBER GLORY'	RED MAPLE	3.5" - 4" CAL.	

0 20 50 100  
SCALE: 1" = 20'



HIGHWAY GUARD DETAILS  
NONE

TRAFFIC SIGNAL CONDUIT  
NONE

WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
NONE

ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	36	48
STARTED FILE NO.		179411056	

LANDSCAPE PLANS  
PART 3 OF 7

CONTINUED ON  
SHEET NO. 35

PLANTING LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EXISTING TREE TO REMAIN AND BE PROTECTED
- EXISTING TREE TO BE REMOVED / TRANSPLANTED
- BIORETENTION BASIN
- SEEDED LAWN

FOR PROFILE SEE SHEET NO. 13 - 14

PLANT SCHEDULE					
QTY	ID	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
2	CK	CLADASTRIS KENTUCKEA	YELLOW WOOD	3.5" - 4" CAL.	
3	HC	HALESIA CAROLINA	CAROLINA SILVERBELL	3.5" - 4" CAL.	

0 20 50 100  
SCALE: 1" = 20'

CONTINUED ON  
SHEET NO. 37

179411056\_BASE.DWG Plotted on 22-Dec-2023 6:20 PM



HIGHWAY GUARD DETAILS  
NONE

TRAFFIC SIGNAL CONDUIT  
NONE

WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
NONE

ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	37	48
STARTED FILE NO.		179411056	

LANDSCAPE PLANS  
PART 4 OF 7

QUINN ROAD

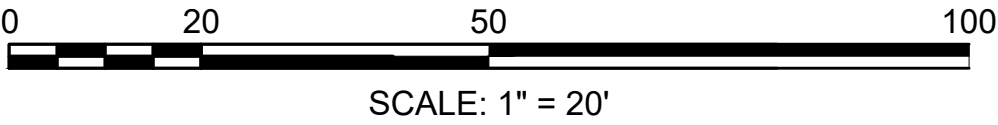
MASSACHUSETTS AVENUE

PINE COURT

PLANTING LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EXISTING TREE TO REMAIN AND BE PROTECTED
- EXISTING TREE TO BE REMOVED / TRANSPLANTED
- BIORETENTION BASIN
- SEEDED LAWN

PLANT SCHEDULE					
QTY	ID	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
1	CK	CLADASTRIS KENTUCKEA	YELLOW WOOD	3.5" - 4" CAL.	
1	HC	HALESIA CAROLINA	CAROLINA SILVERBELL	3.5" - 4" CAL.	



CONTINUED ON  
SHEET NO. 36

FOR PROFILE SEE SHEET NO. 13 - 14

HIGHWAY GUARD DETAILS  
NONE

TRAFFIC SIGNAL CONDUIT  
NONE

WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
NONE

ARLINGTON  
APPLETON STREET & MASS AVE

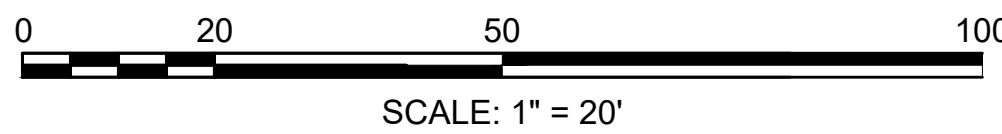
STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	38	48
START/EC FILE NO.		179411056	

LANDSCAPE PLANS  
PART 5 OF 7

PLANTING LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EXISTING TREE TO REMAIN AND BE PROTECTED
- EXISTING TREE TO BE REMOVED / TRANSPLANTED
- BIORETENTION BASIN
- SEEDED LAWN

FOR PROFILE SEE SHEET NO. 13 - 14



FOREST STREET

BURTON STREET

CONTINUED ON  
SHEET NO. 37

CONTINUED ON  
SHEET NO. 39

179411056\_BASE.DWG Plotted on 22-Dec-2023 6:20 PM



HIGHWAY GUARD DETAILS  
NONE

TRAFFIC SIGNAL CONDUIT  
NONE

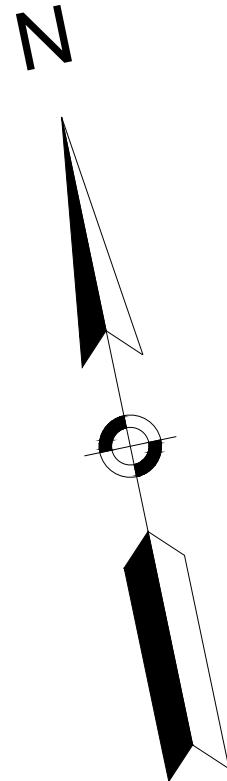
WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
NONE

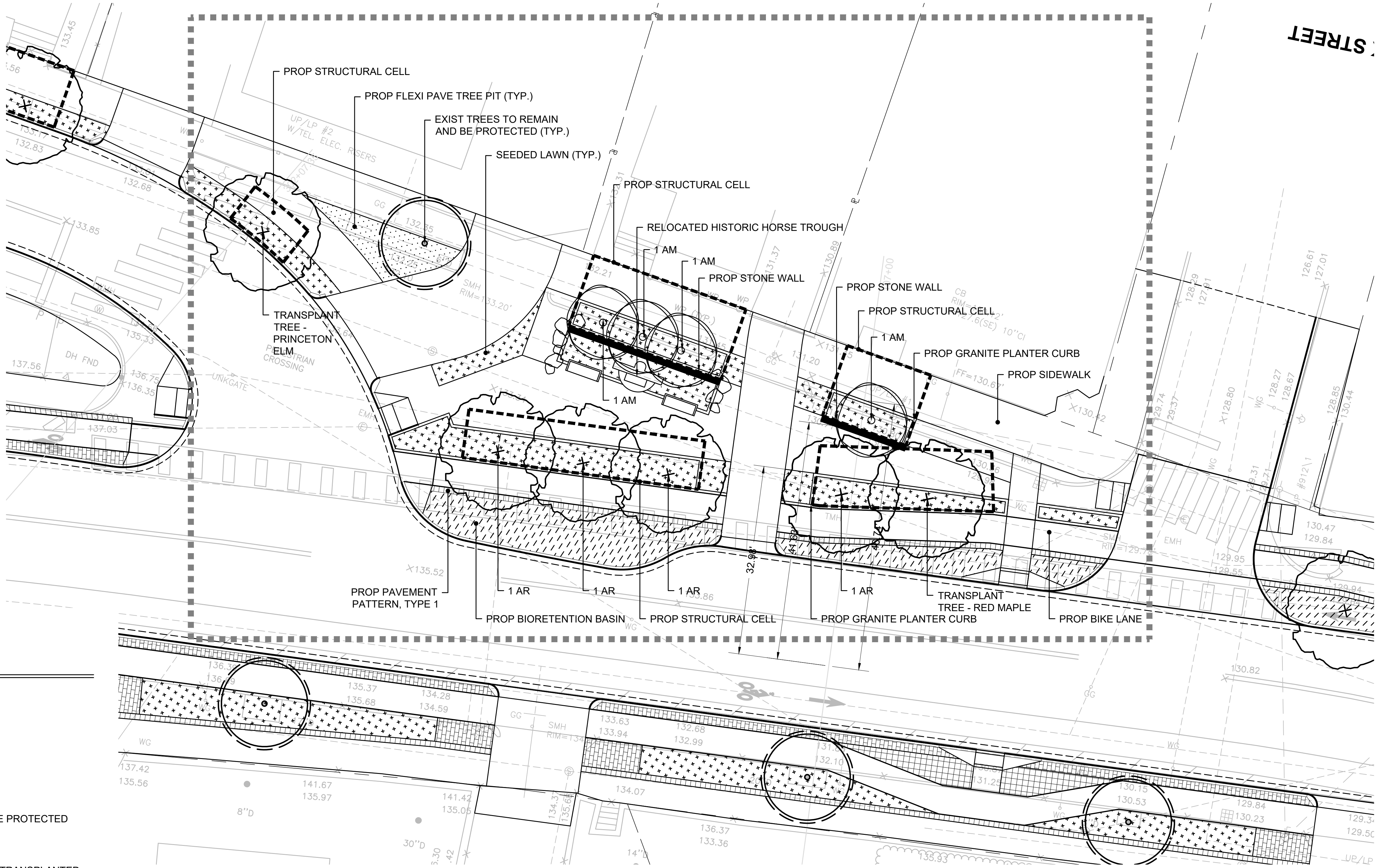
ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	39	48
STARTED FILE NO.		179411056	

LANDSCAPE PLANS  
PART 6 OF 7



CONTINUED ON  
SHEET NO. 38

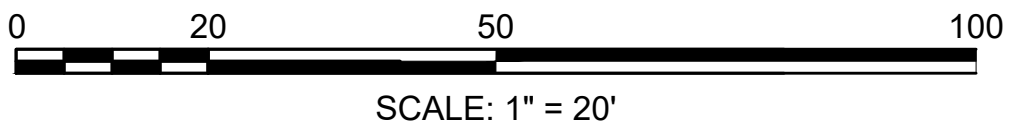


PLANTING LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EXISTING TREE TO REMAIN AND BE PROTECTED
- EXISTING TREE TO BE REMOVED / TRANSPLANTED
- BIORETENTION BASIN
- SEEDED LAWN

FOR PROFILE SEE SHEET NO. 13 - 14

PLANT SCHEDULE					
QTY	ID	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
4	AR	ACE RUBRUM 'OCTOBER GLORY'	RED MAPLE	3.5" - 4" CAL.	
4	AM	AMELANCHIER 'AUTUMN BRILLIANCE'	SERVICEBERRY	7' - 8' HT.	MULTI-STEM



CONTINUED ON  
SHEET NO. 40

179411056\_BASE.DWG Plotted on 22-Dec-2023 6:21 PM

HIGHWAY GUARD DETAILS  
NONE

TRAFFIC SIGNAL CONDUIT  
NONE

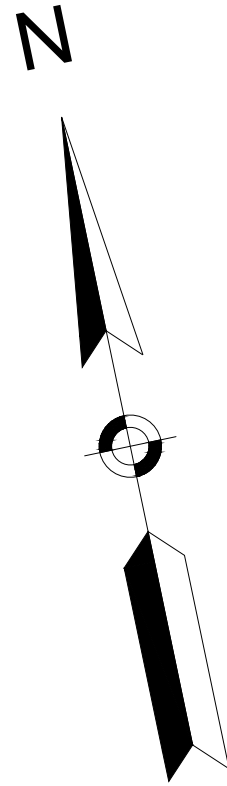
WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
NONE

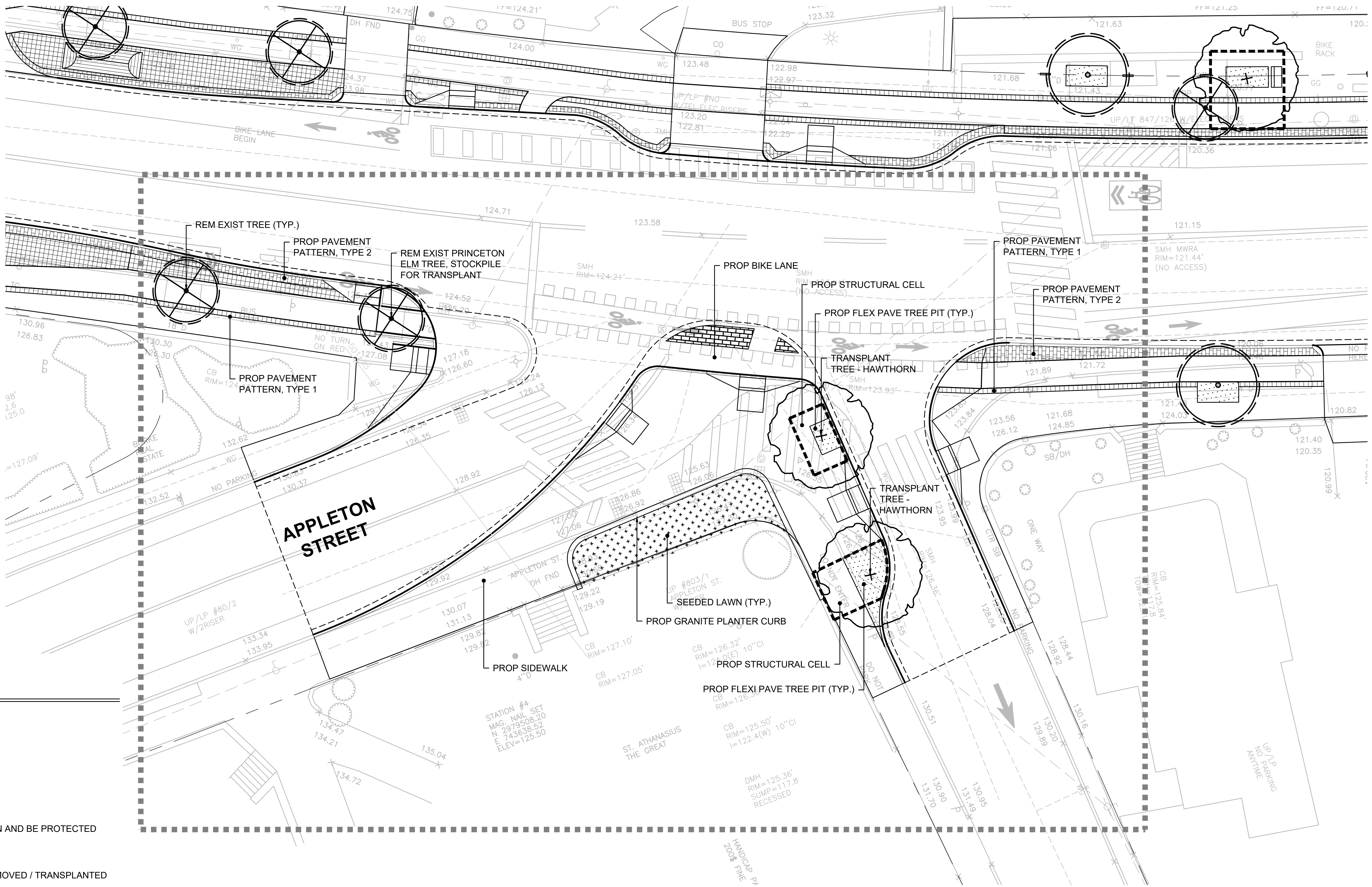
ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	40	48
STARTED FILE NO.		179411056	

LANDSCAPE PLANS  
PART 7 OF 7



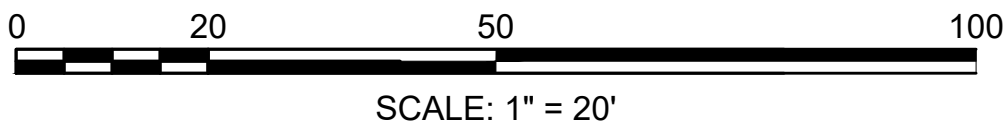
CONTINUED ON  
SHEET NO. 39



PLANTING LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EXISTING TREE TO REMAIN AND BE PROTECTED
- EXISTING TREE TO BE REMOVED / TRANSPLANTED
- BIORETENTION BASIN
- SEEDED LAWN

FOR PROFILE SEE SHEET NO. 13 - 14



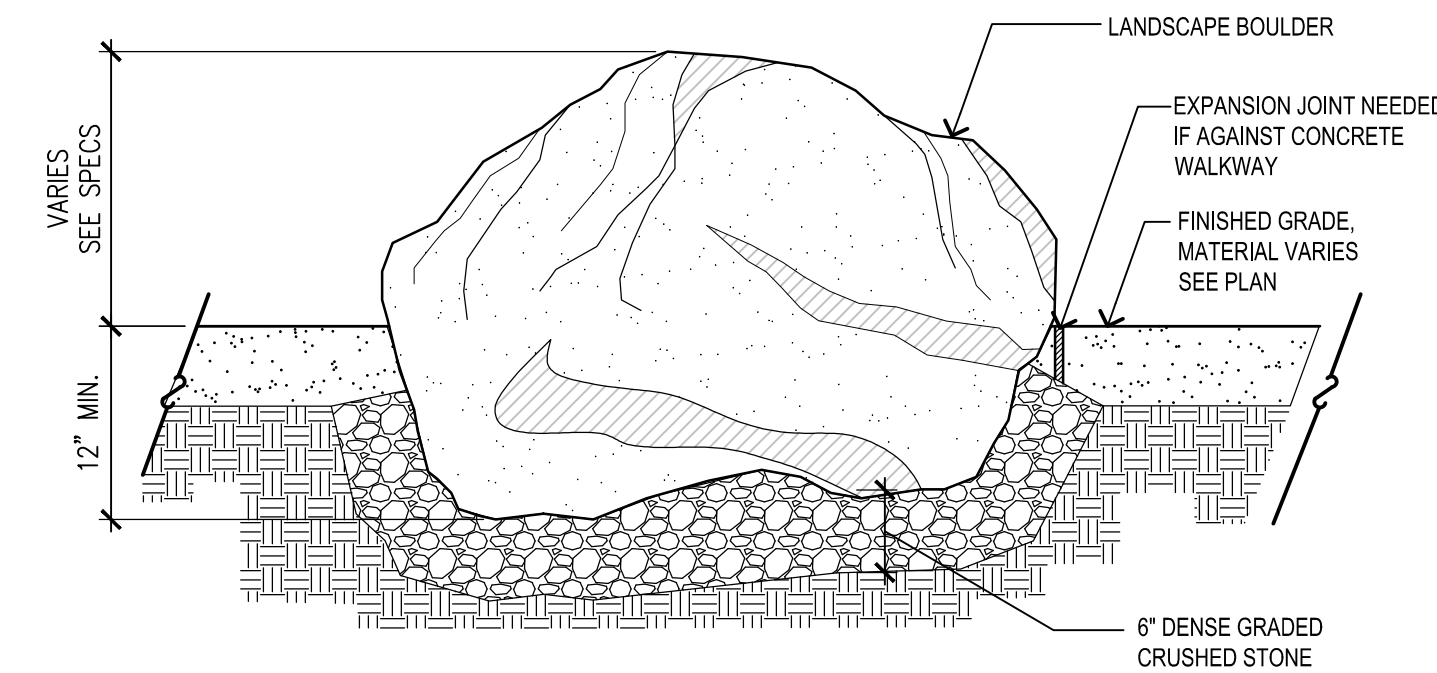
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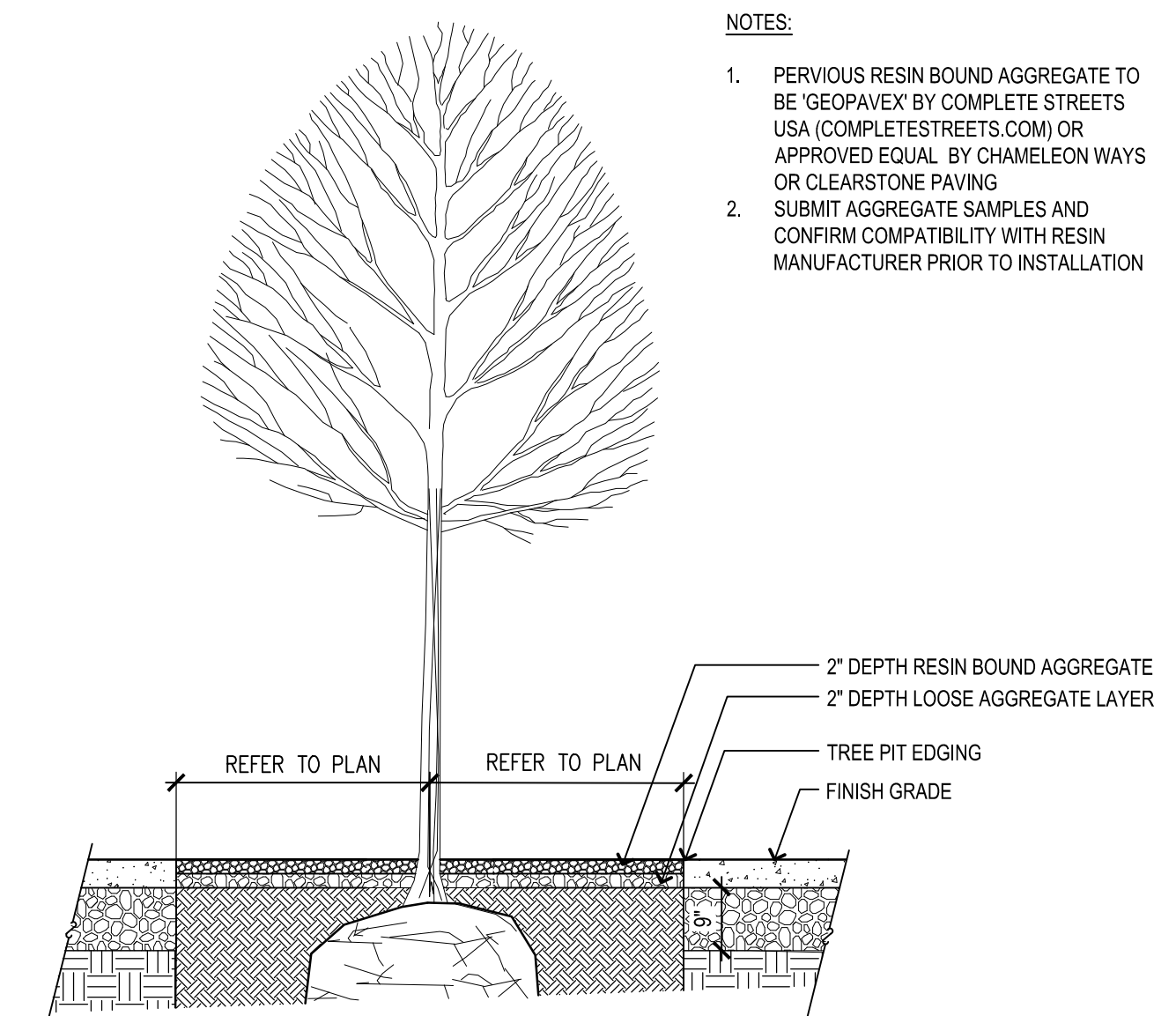


IMA	PRELIMINARY DESIGN	41	46
STANTEC FILE NO.		179411056	

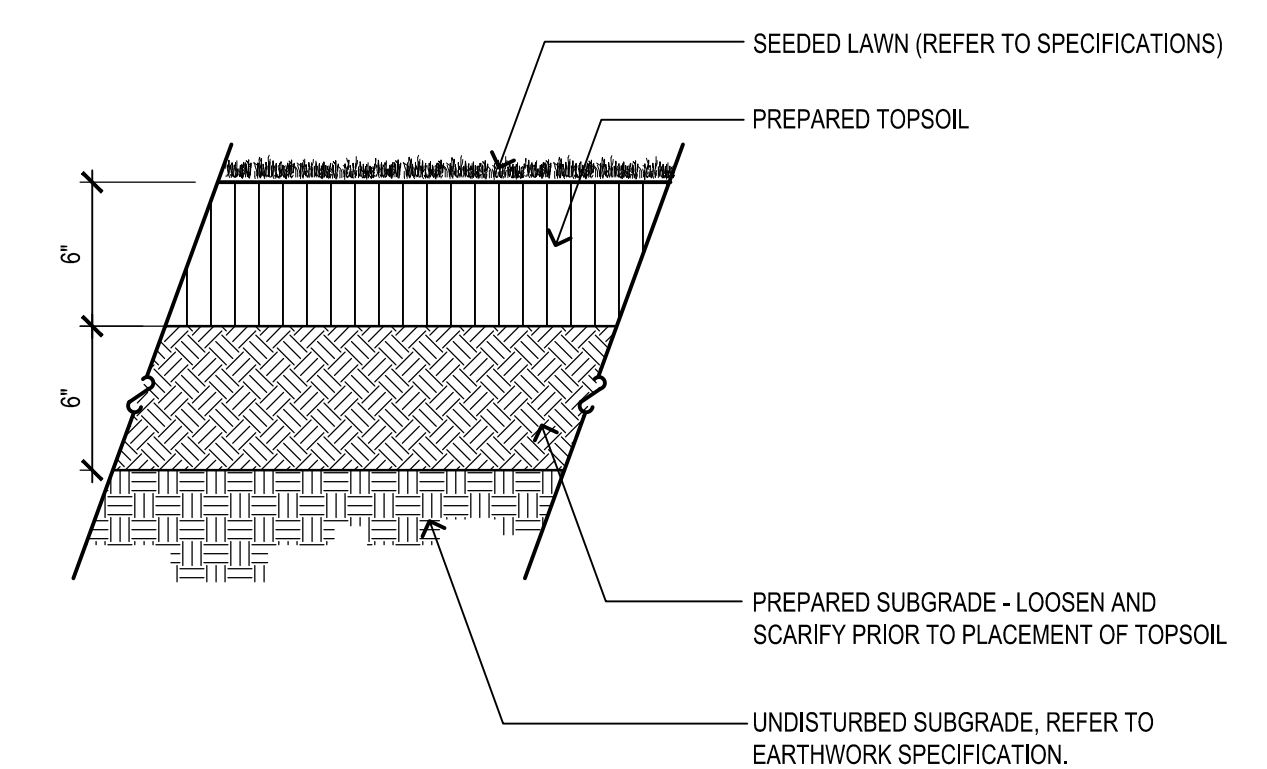
LANDSCAPE DETAILS



**3 LANDSCAPE BOULDER**  
1" = 1'-0" BC1794-11056-2



**6 FLEXI PAVE TREE PIT** BC1794-11056-7



**9 LOAM AND SEED OR SOD PLANTING** BC1704-11056-17

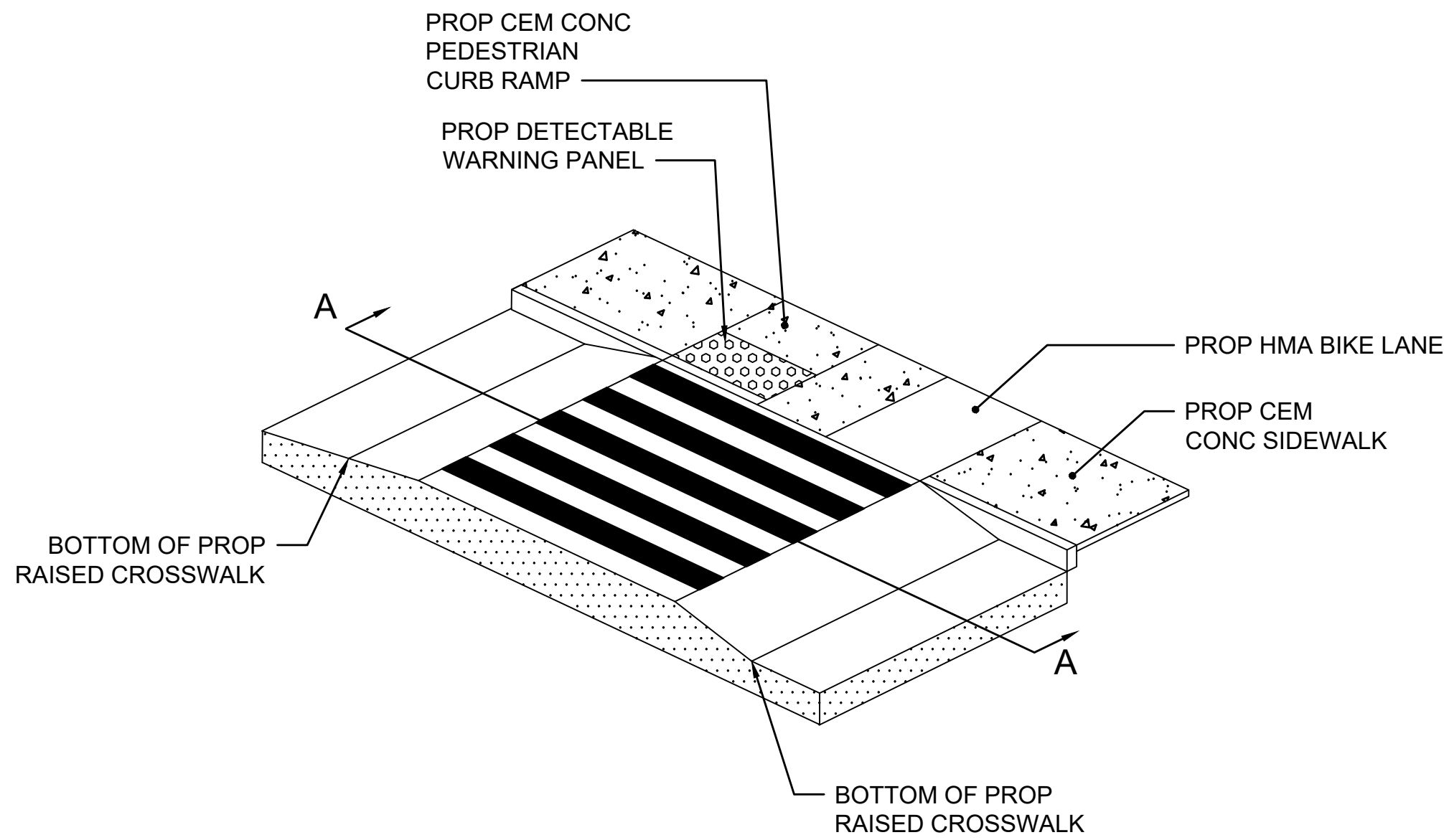
ARLINGTON  
APPLETON STREET & MASS AVE

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	PRELIMINARY DESIGN	42	48
STARTED FILE NO.		179411056	

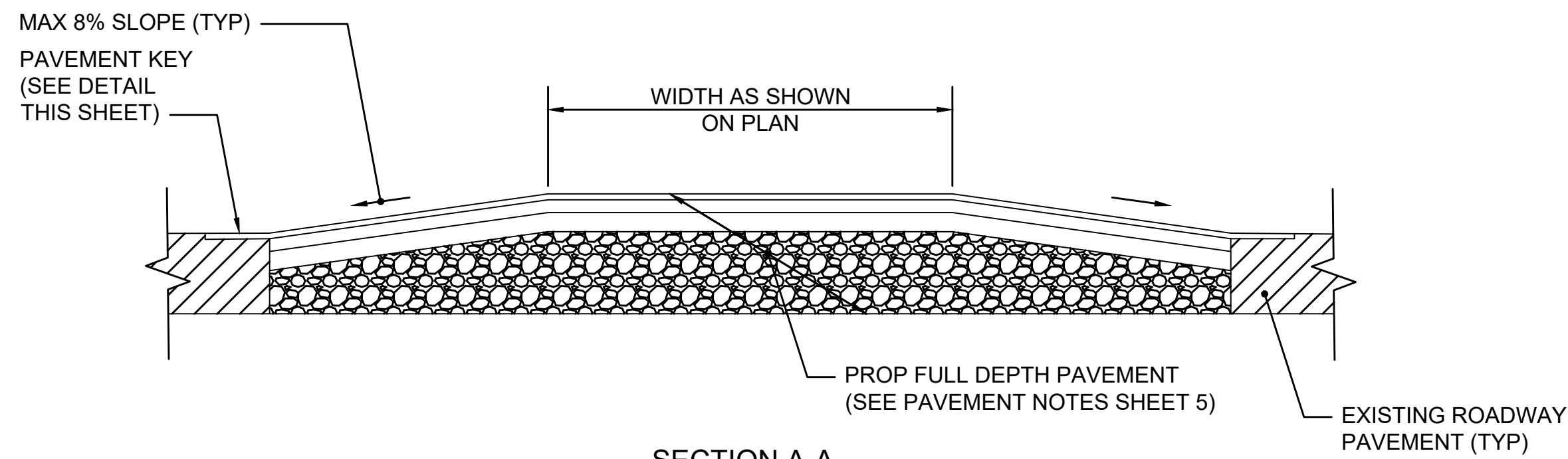
LANDSCAPE DETAILS  
PART 2 OF 2

MASTER PLANT SCHEDULE					
QTY	ID	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
6	CK	CLADASTRIS KENTUCKEA	YELLOW WOOD	3.5" - 4" CAL.	
6	HC	HALESIA CAROLINA	CAROLINA SILVERBELL	3.5" - 4" CAL.	
8	AR	ACE RUBRUM 'OCTOBER GLORY'	RED MAPLE	3.5" - 4" CAL.	
4	AM	AMELANCHIER 'AUTUMN BRILLIANCE'	SERVICEBERRY	7' - 8' HT.	MULTI-STEM

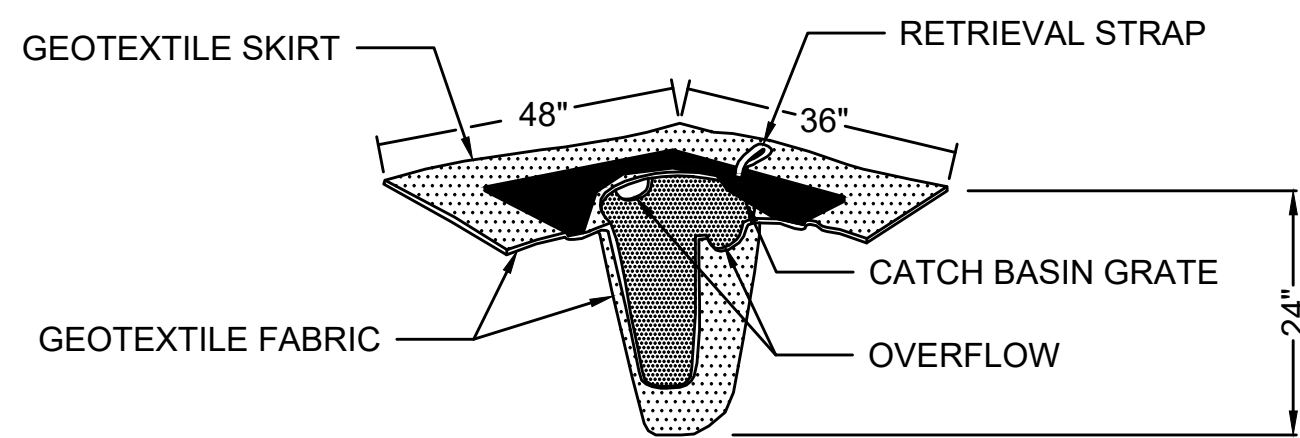




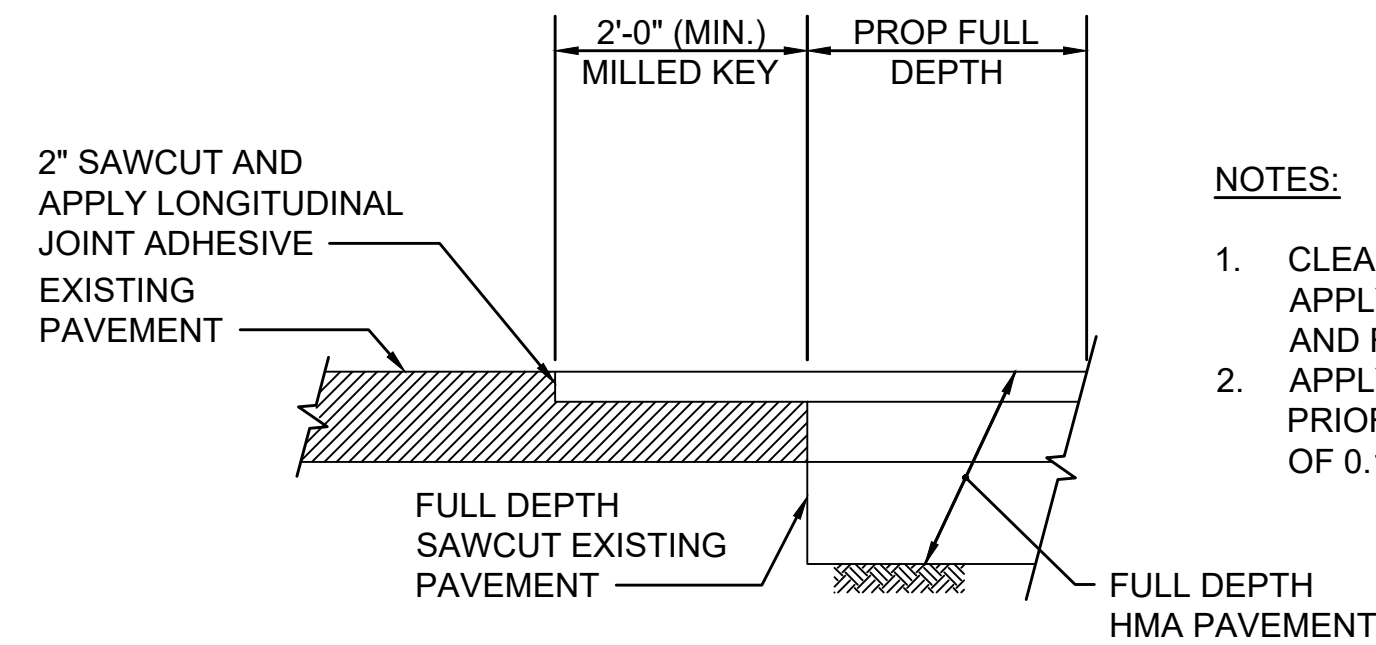
ISOMETRIC VIEW



RAISED CROSSWALK DETAIL  
NOT TO SCALE



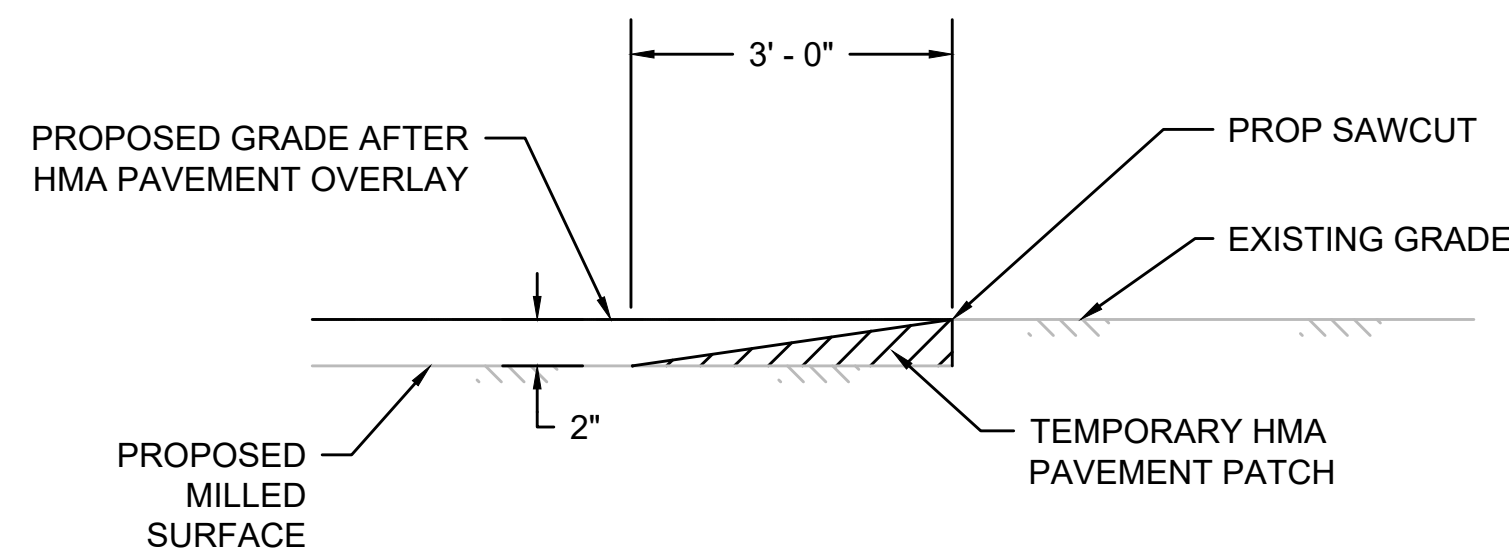
SILT SACK FOR SEDIMENT CONTROL  
NOT TO SCALE



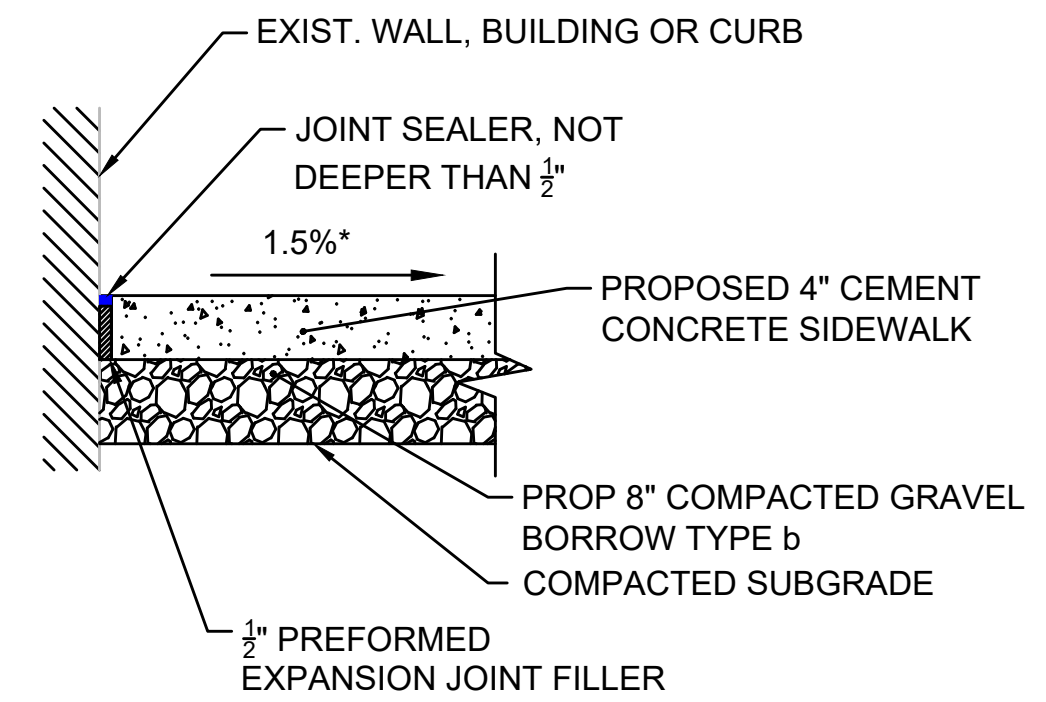
HOT MIX ASPHALT KEY DETAIL  
NOT TO SCALE

NOTES:

- CLEAN ALL MILLED SYRFACES BEFORE APPLYING JOINT ADHESIVE, TACK COAT AND FINAL PAVEMENT.
- APPLY TACK COAT TO MILLED SURFACES PRIOR TO BEING OVERLAID AT THE RATE OF 0.10 GALLONS PER SQUARE YARD.

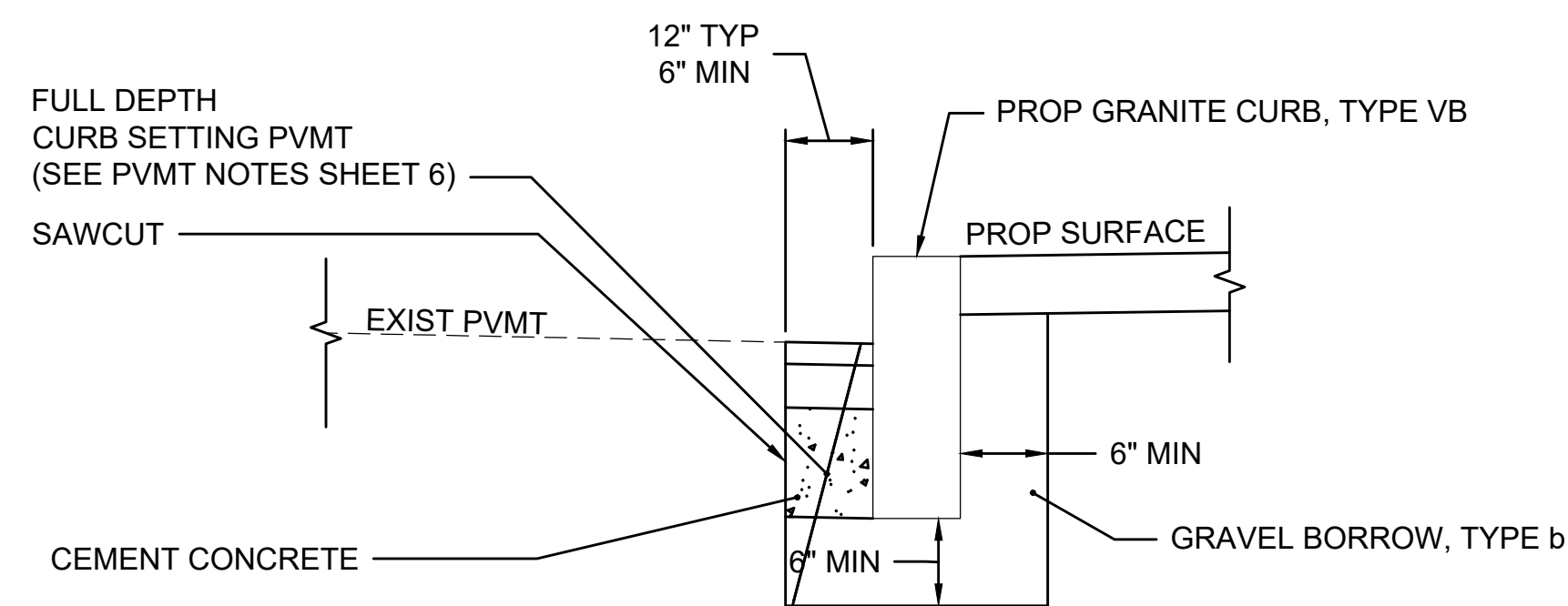


TEMPORARY PAVEMENT TRANSITION DETAIL  
NOT TO SCALE



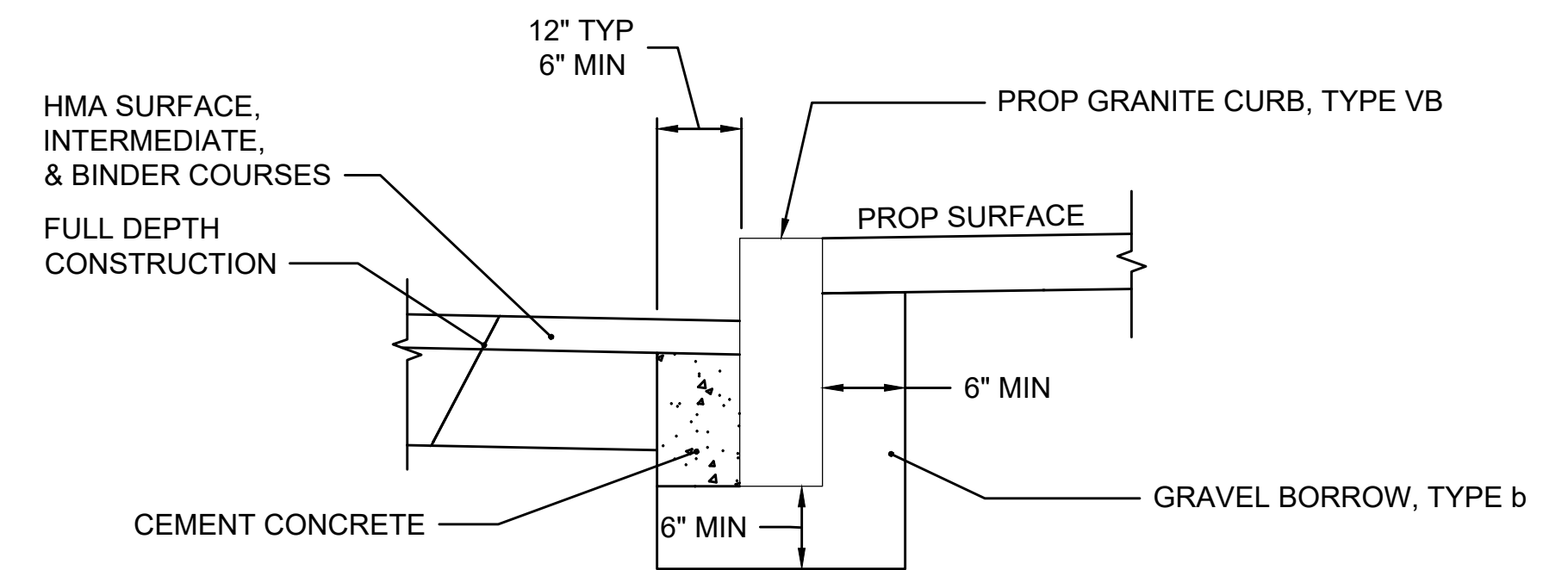
\* TOLERANCE FOR CONSTRUCTION ±0.5%

BACK OF CEMENT CONCRETE SIDEWALK AT  
BUILDING/WALL/CURB DETAIL  
NOT TO SCALE



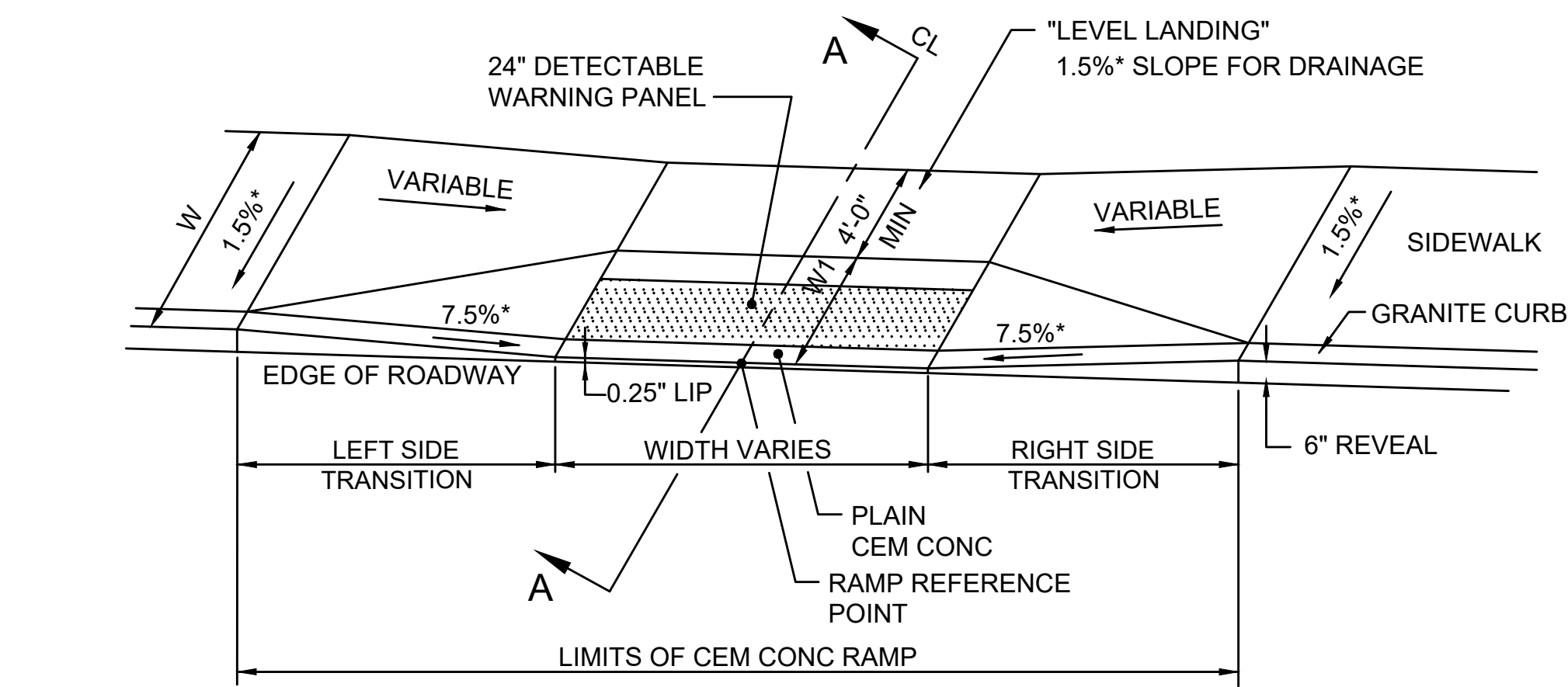
- NOTES:
- CURB SETTING SHALL CONFORM TO MASSDOT STANDARD DETAIL E106.3.0.

METHOD OF SETTING VERTICAL GRANITE CURB  
(AGAINST EXISTING PAVEMENT)  
NOT TO SCALE



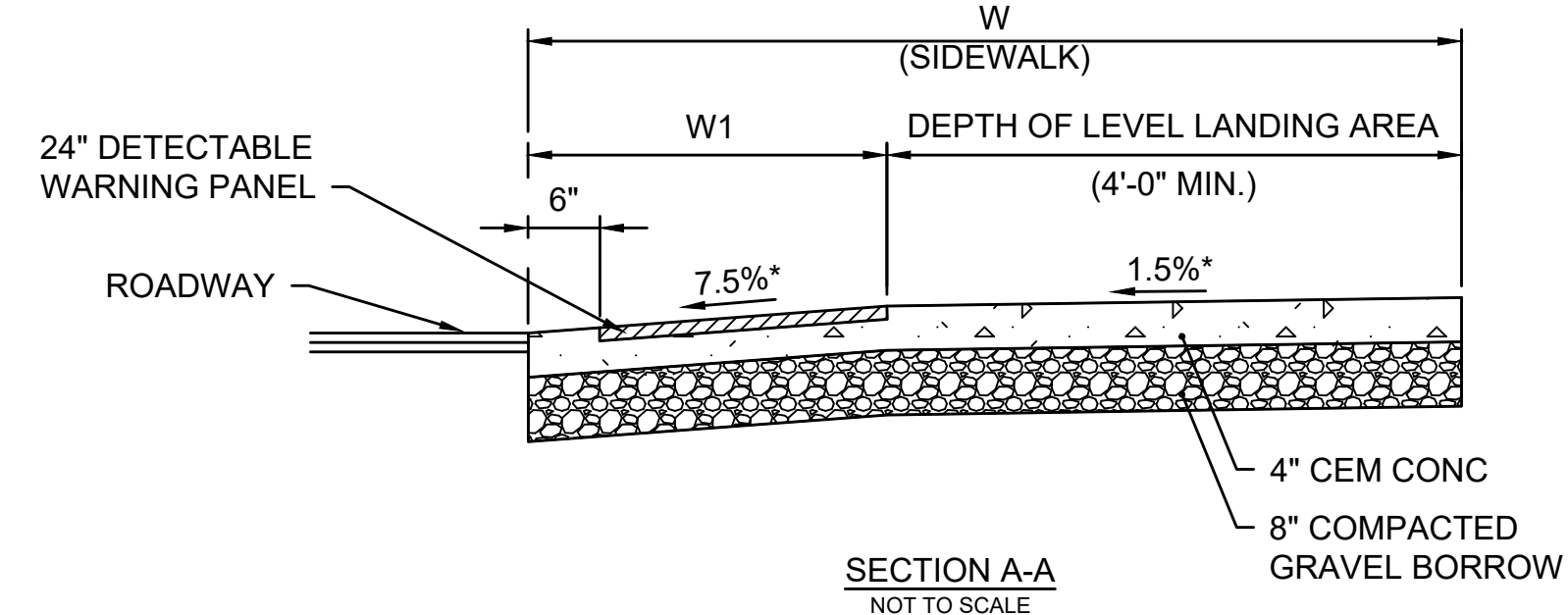
- NOTES:
- CURB SETTING SHALL CONFORM TO MASSDOT STANDARD DETAIL E106.3.0.

METHOD OF SETTING VERTICAL GRANITE CURB  
(AGAINST FULL DEPTH HMA CONSTRUCTION)  
NOT TO SCALE

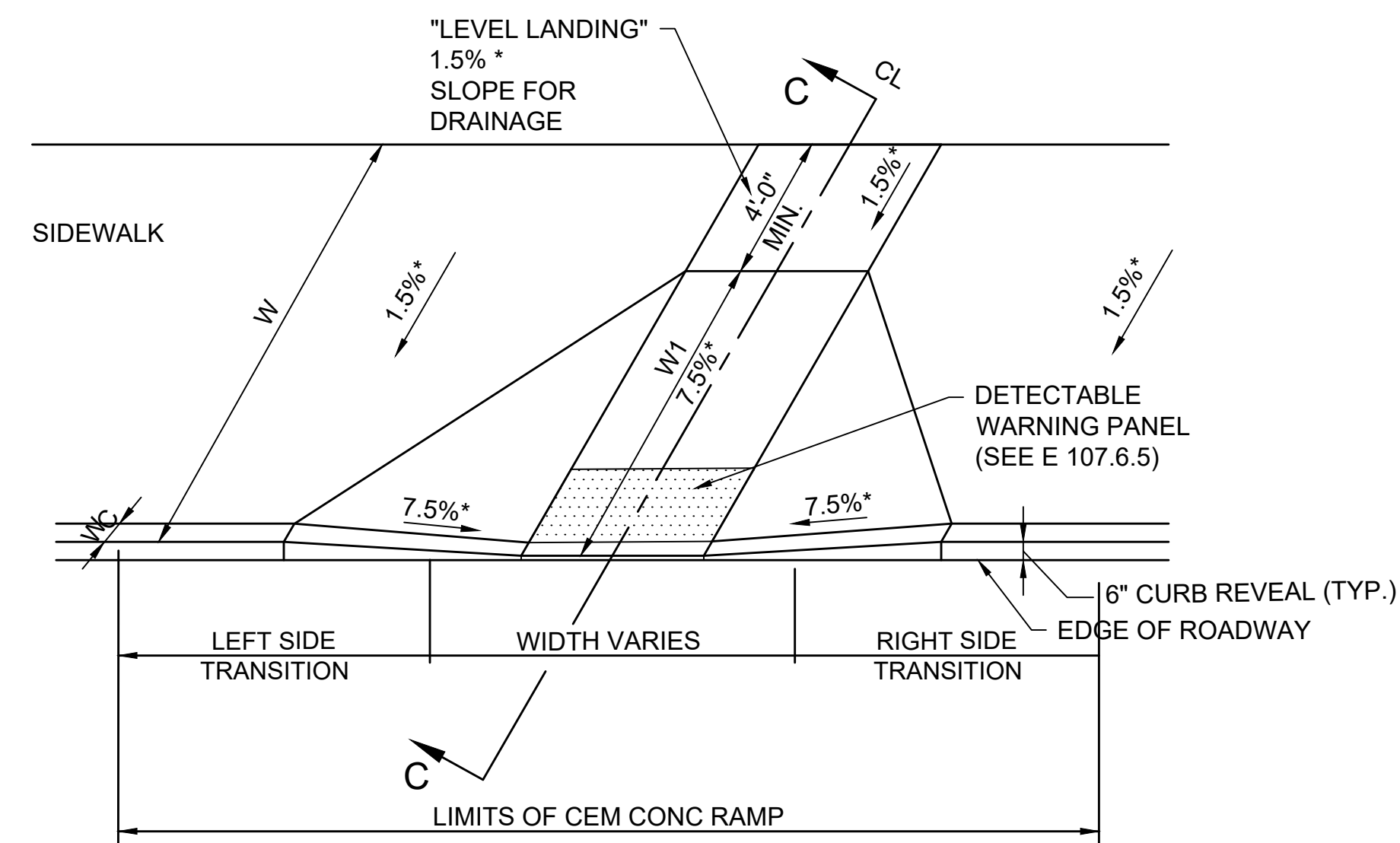


NEGATIVE GUTTER SLOPE  
(FLOWS RIGHT TO LEFT)

POSITIVE GUTTER SLOPE  
(FLOWS LEFT TO RIGHT)

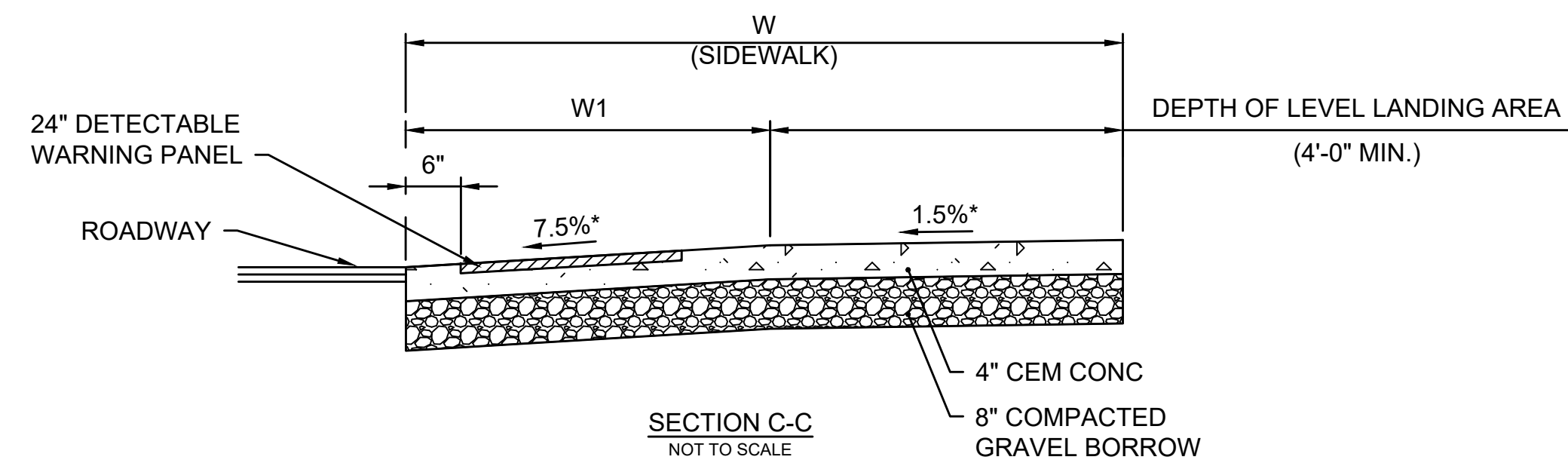


PEDESTRIAN CURB RAMP DETAIL - TYPE A  
NOT TO SCALE

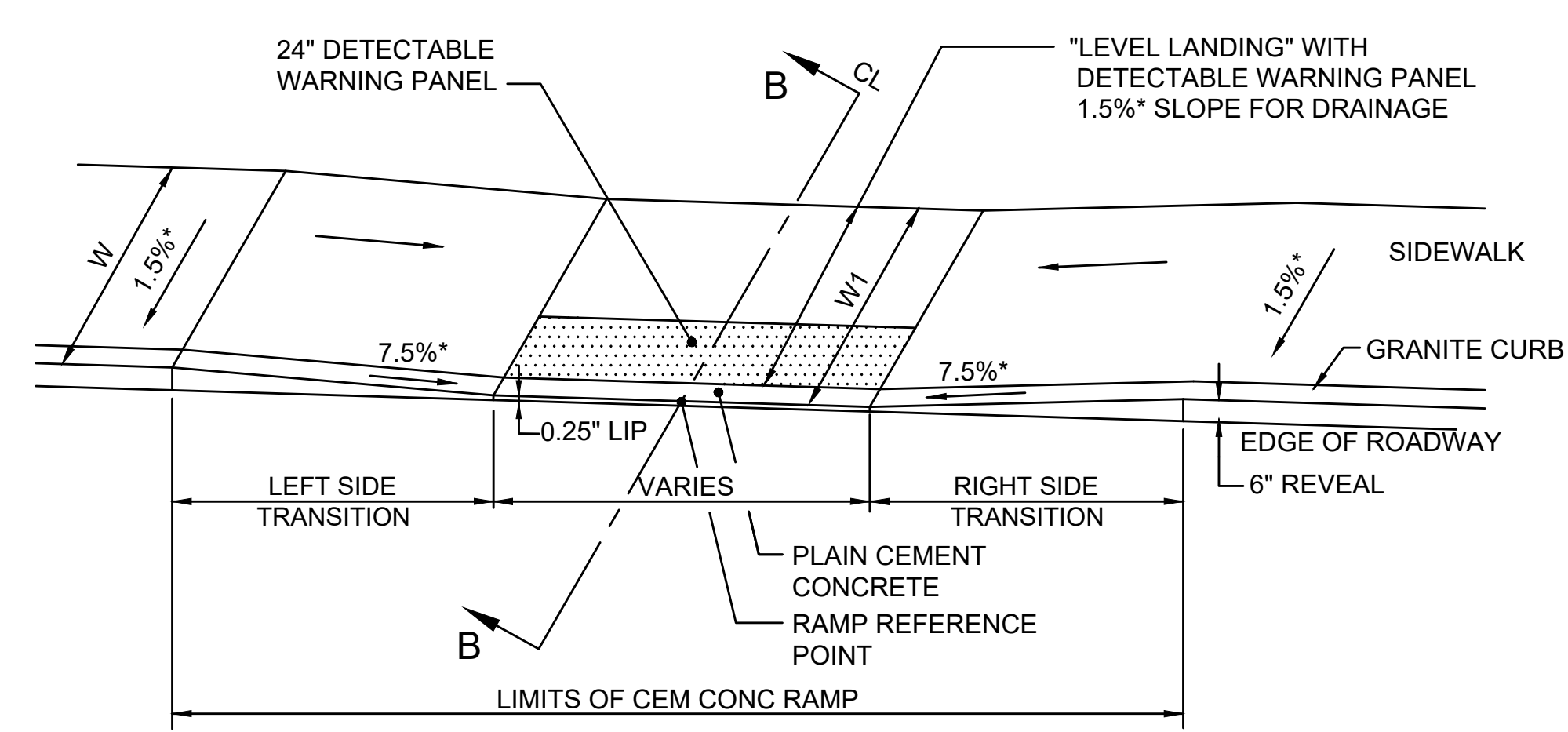


NEGATIVE GUTTER SLOPE  
(FLOWS RIGHT TO LEFT)

POSITIVE GUTTER SLOPE  
(FLOWS LEFT TO RIGHT)

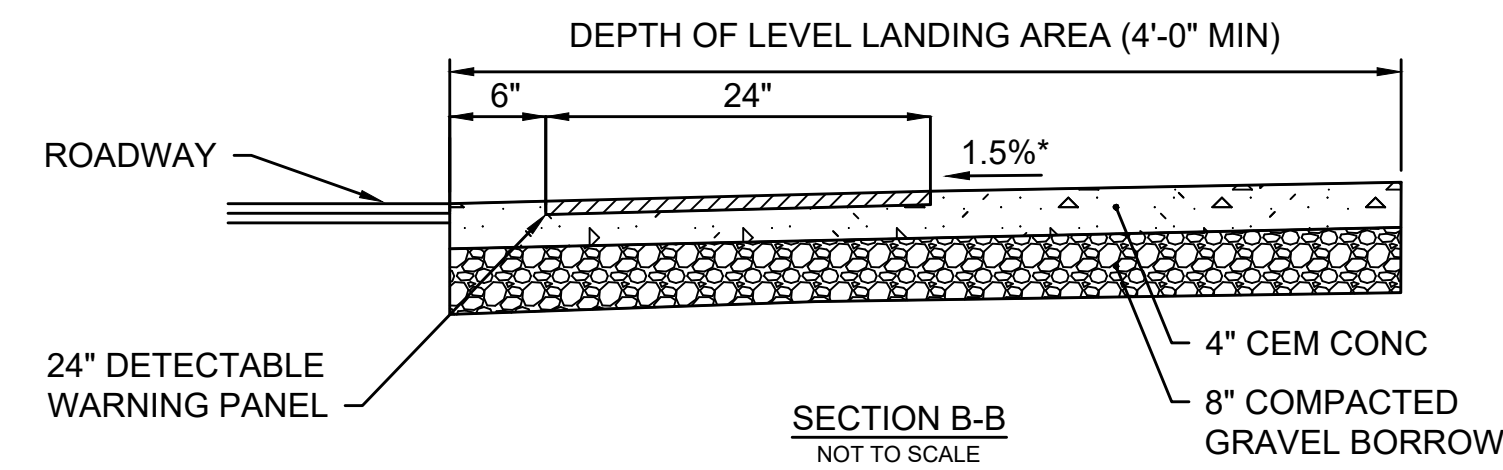


PEDESTRIAN CURB RAMP DETAIL - TYPE C  
NOT TO SCALE

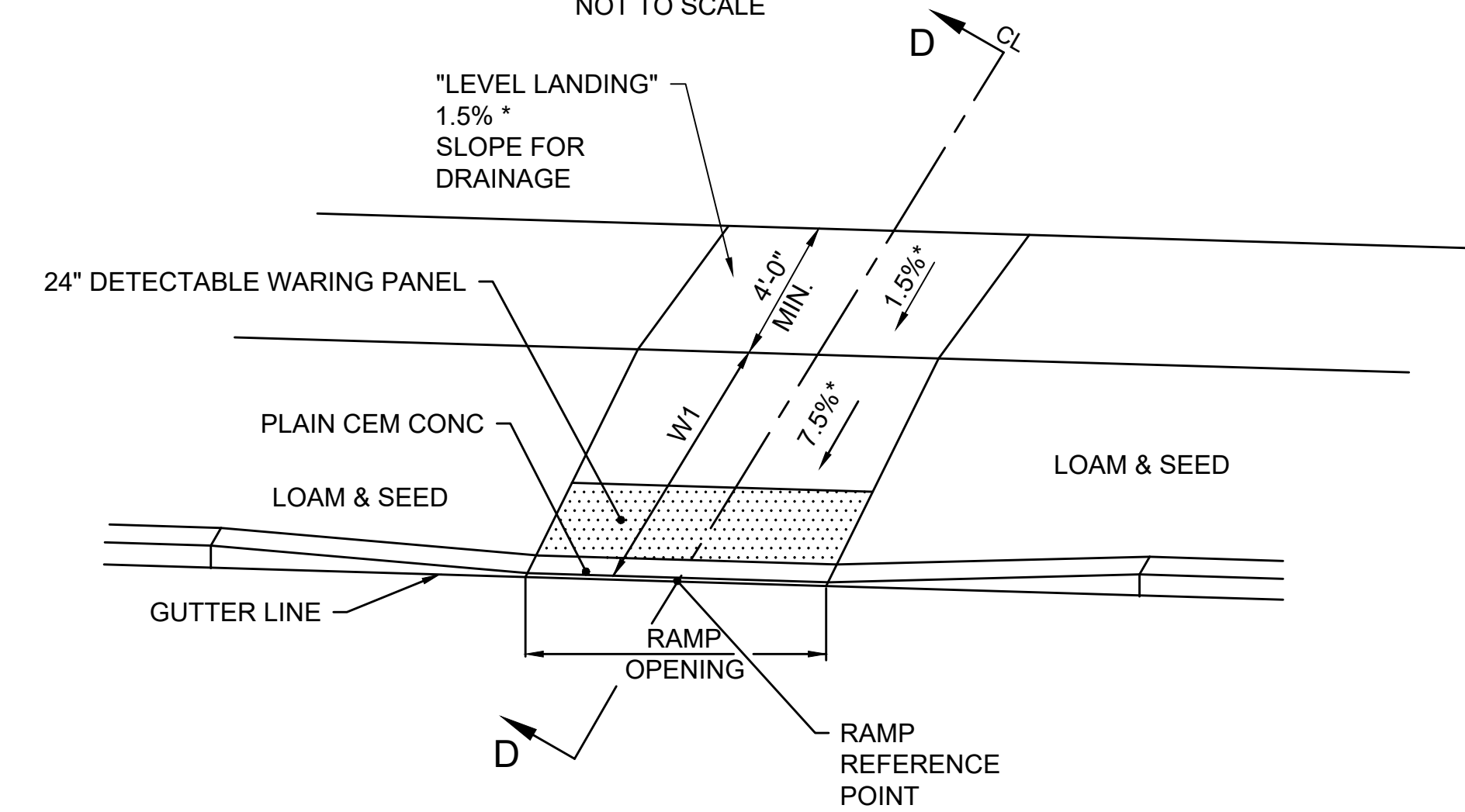


NEGATIVE GUTTER SLOPE  
(FLOWS RIGHT TO LEFT)

POSITIVE GUTTER SLOPE  
(FLOWS LEFT TO RIGHT)

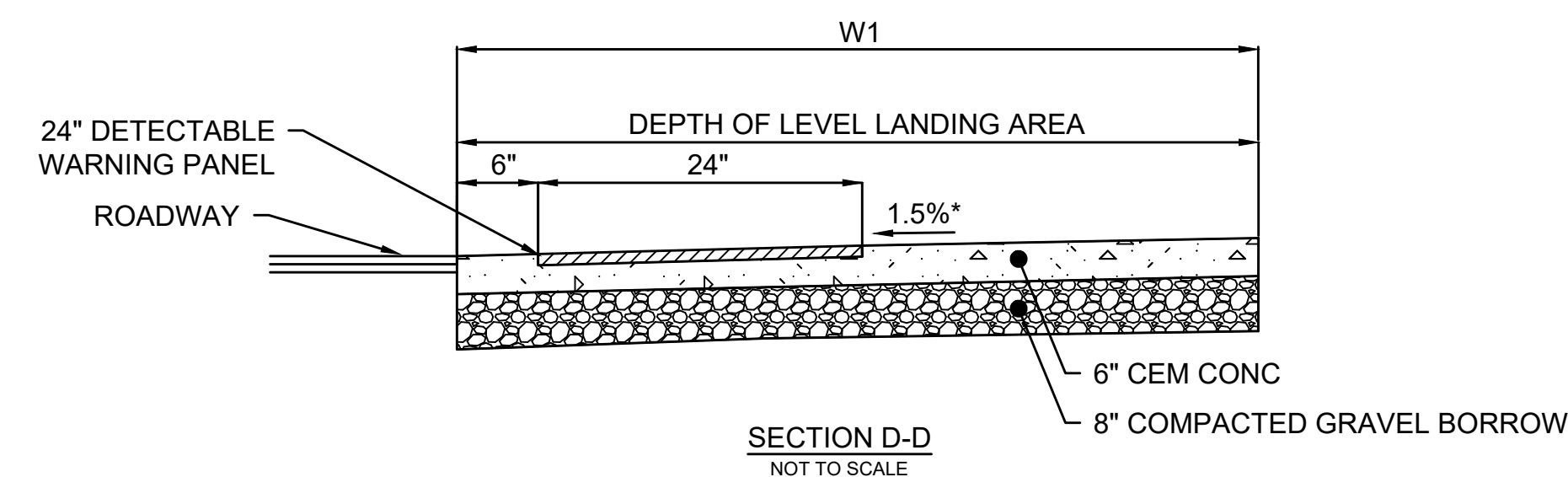


PEDESTRIAN CURB RAMP DETAIL - TYPE B  
NOT TO SCALE



NEGATIVE GUTTER SLOPE  
(FLOWS RIGHT TO LEFT)

POSITIVE GUTTER SLOPE  
(FLOWS LEFT TO RIGHT)



WHEELCHAIR RAMP DETAIL - TYPE D  
NOT TO SCALE





